| 1037 | HUSGC38 | 882527 | 1047 | 82 - 600 | 2452 | His-156 to Ile-172. | AR033: 7, AR060: 4,
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AR096: 3, AR104: 2,
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L0740: 6, L0663: 5, H0013:
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H0428: 2, H0616: 2, T0042:
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| 1038 | HLHAN77 | 882559 | 1048 | 144 – 581 | 2453 | Phe-17 to Asp-37, Thr-51 to Leu-67, Asn-70 to Thr-78. | L0803: 1, L0775: 1, L0375: 1, L0806: 1, L0805: 1, L0652: 1, L0653: 1, L0655: 1, L0792: 1, L0664: 1, H0144: 1, H0711: 1, H0684: 1, H0660: 1, H0672: 1, H0521: 1, H0696: 1, H0627: 1, L0742: 1, L0777: 1, L0752: 1, S0031: 1, S0436: 1, L0589: 1, L0591: 1, L0608: 1, L0594: 1, H0653: 1, H0667: 1, H0543: 1, H0423: 1 and S0424: 1. | | | 76-108 |
| 1039 | HFPKI70 | 882564 | 1049 | 107 – | 2454 | Arg-24 to His-31, | AR096: 2, AR055: 1, AR053: 1, AR089: 1, AR060: 1, AR039: 0, AR052: 0, AR061: 0, AR033: 0 T0006: 2, L0439: 2, L0750: 2, L0785: 1, S0360: 1, S0222: 1, H0586: 1, L0622: 1, H0620: 1, H0024: 1, H0594: 1, H0606: 1, L0770: 1, L0771: 1, L0794: 1, L0649: 1, L0805: 1, L0653: 1, L0659: 1, L0791: 1, L0666: 1, L0753: 1 and L0758: 1. | AR096: 8, AR055: 7, | | 29-50, 63- |

1040	HDRMDI7	882582	1050	475		Leu-56 to Leu-64, Ser-96 to Lys-102, Leu-114 to His-123.	AR089: 7, AR053: 6, AR060: 5, AR052: 5, AR033: 5, AR061: 5, AR104: 4, AR039: 1, H0457: 2, S0222: 1, H0587: 1, H0013: 1, S0010: 1, H0373: 1 and H0521: 1.	81
1041	HEMDMI6	882648	1051	116 - 523	2455	Lys-68 to Gly-76.	AR053: 1, AR104: 1, AR060: 0, AR096: 0, AR052: 0, AR033: 1, AR089: 1, AR061: 0, AR055: 0, AR039: 0	17-40, 41-66, 102-118, 84-100
				15 - 677	2456	Phe-10 to Lys-15.	AR089: 18, AR060: 16, AR033: 13, AR052: 11, AR055: 7, AR096: 17, AR104: 13, AR039: 12, AR053: 9, AR061: 5, L0759: 8, L0731:7, H0521: 5, L0005: 4, S0358: 3, L0157: 3, L0757: 3, S0046: 2, H0494: 2, L0662: 2, L0740: 2, L0755: 2, H0657: 1, H0341: 1, H0663: 1, H0638: 1, S0376: 1, S0132: 1, H0549: 1, H0586: 1, H0590: 1, H0024: 1, H0071: 1, H0083: 1, H0252: 1, H0090: 1, H0591: 1,	162-178

| 1042 | HODGL52 | 882663 | 1052 | 62 - 517 | 2457 | Ser-120 to Ala-125, Glu-143 to Tyr-152. | H0551: 1, H0059: 1, H0529: 1, L0389: 1, L0775: 1, L0776: 1, L0783: 1, L0665: 1, L0438: 1, H0547: 1, H0435: 1, S0378: 1, S0037: 1, L0439: 1, S0434: 1, L0596: 1, L0592: 1, L0604: 1, H0667: 1, H0543: 1 and H0422: 1.

AR089: 13, AR055: 11, AR060: 9, AR096: 8, AR033: 7, AR061: 7, AR053: 5, AR052: 5, AR039: 5, AR104: 2, H0046: 6, L0770: 6, H0402: 5, L0749: 5, L0731: 5, S0358: 4, L0771: 4, L0740: 4, H0617: 3, L0769: 3, L0783: 3, H0670: 3, L0747: 3, S0192: 3, S0476: 2, H0549: 2, H0581: 2, H0271: 2, H0328: 2, L0772: 2, L0532: 2, L0663: 2, L0438: 2, H0684: 2, H0539: 2, L0748: 2, L0439: 2, L0750: 2, L0757: 2, H0624: 1, L0785: 1, H0580: 1, S0046: 1, S0132: 1, H0351: 1, H0370: 1, H0455: 1, H0299: 1, H0586: 1, H0331: 1 | 52-76, 86-106, 9-25, 29-45 |

| 1043 | HSLGA24 | 882690 | 1053 | 83 - 490 | 2458 | Pro-7 to Arg-12, Glu-18 to Ser-24, Ser-32 to Glu-38, Asp-103 to Arg-111. | 1, H0485: 1, H0486: 1, T0082: 1, H0618: 1, H0253: 1, H0544: 1, H0546: 1, H0545: 1, H0620: 1, H0083: 1, H0266: 1, H0252: 1, H0615: 1, H0598: 1, H0163: 1, H0038: 1, H0040: 1, H0551: 1, H0059: 1, L0639: 1, L0667: 1, L0764: 1, L0662: 1, L0774: 1, L0775: 1, L0806: 1, L0805: 1, L0526: 1, L0809: 1, L0543: 1, L0647: 1, L0666: 1, L0665: 1, S0216: 1, S0374: 1, H0547: 1, H0519: 1, H0711: 1, H0658: 1, H0660: 1, S0152: 1, S0350: 1, H0696: 1, S0044: 1, S0406: 1, H0436: 1, S0037: 1, S0028: 1, L0743: 1, L0744: 1, L0759: 1 and S0436: 1. | AR089: 13, AR096: 9, AR052: 7, AR053: 5, AR060: 5, AR033: 5, AR039: 4, AR104: 4, AR055: 3, AR061: 2 S0028: 1 | 112-136, 42-62 |
| 1044 | HMHBT84 | 882784 | 1054 | 406 - 948 | 2459 | Met-1 to Leu-6, Pro-13 to Ala-18, | | AR055: 12, AR096: 8, AR060: 5, AR089: 5, | 19-38, 118-135, |

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1047	HARMS29	882813	1057	100 - 423	2462	Pro-29 to Pro-41.	AR096: 4, AR053: 3, AR039: 2, AR055: 2, AR089: 2, AR033: 2, AR061: 2, AR060: 2, AR052: 1, AR104: 1 H0592: 1, T0048: 1, L0770: 1 and L0756: 1.		53-74, 1-17
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1050	HDPSO06	882888	1060	76 - 1269	2465	Met-1 to Glu-6, Leu-36 to Arg-41, Leu-62 to Gly-67, Lys-115 to Tyr-129, Asn-151 to Asp-156, Ala-178 to His-185, Pro-215 to Met-220, Lys-232 to Asn-238, Glu-261 to Pro-266, Asn-277 to Ser-284, Asn-314 to Lys-319, Asp-367 to Lys-377, Lys-391 to His-398.	1, H0580: 1, H0619: 1, L0467: 1, H0549: 1, T0039: 1, H0427: 1, H0575: 1, H0581: 1, H0597: 1, H0546: 1, T0010: 1, H0179: 1, H0286: 1, S0338: 1, H0615: 1, H0628: 1, H0063: 1, H0647: 1, H0649: 1, H0555: 1, S3012: 1, S0037: 1, S3014: 1, S0027: 1, S0032: 1, L0759: 1, L0593: 1 and H0543: 1.	71-95, 95-111
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1051	HFXKG51	882935	1061	559 -	2466	His-10 to Asn-21,	AR096: 4, AR053: 3,	94-116,

1052	HE9PQ22	882969	1062	138 – 476	2467	Pro-144 to Asn-154, Gln-161 to Glu-166.	AR052: 3, AR089: 2, AR060: 2, AR033: 2, AR039: 1, AR055: 1, AR104: 1, AR061: 1, S0028: 2 and S0282: 1.			37-53, 113-130, 66-82
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1053	HELEL31	882980	1063	115 – 495	2468	Met-1 to Leu-6, Leu-56 to Trp-67.	AR089: 15, AR052: 14, AR096: 13, AR060: 12, AR033: 12, AR039: 11, AR055: 10, AR104: 10, AR053: 9, AR061: 4, L0438: 3, L0751: 3, L0747: 3, L0757: 3, H0251:	1q24	107300, 131210, 136132, 145001, 173610, 601518, 601652	66-93, 29-47

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1054	HTLGQ83	882989	1064	814-2	2469			
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S0354: 1, S0376: 1, S0360:
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L0717: 1, H0550: 1, S0222:
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1, L0040: 1, H0012: 1,
H0620: 1, H0373: 1, H0594:
1, H0039: 1, H0622: 1,
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1072	HTLAG19	883219	1082	107 - 1120	2487	Met-1 to Leu-6, Phe-48 to Gly-54, Cys-99 to Arg-104, Pro-258 to Ser-263, Arg-303 to Thr-309.	L0662: 1, L0806: 1, L0783: 1, L0663: 1, L0664: 1, S0330: 1, H0478: 1, L0741: 1, L0779: 1 and S0031: 1. AR033: 7, AR055: 5, AR061: 4, AR060: 3, AR089: 3, AR053: 3, AR052: 3, AR096: 3, AR039: 2, AR104: 2 H0253: 11, L0439: 6, L0794: 5, L0809: 5, L0758: 4, H0618: 3, L0766: 3, L0803: 3, H0393: 2, L0783: 2, L0438: 2, H0341: 1, S0420: 1, S0358: 1, H0730: 1, S0474: 1, S0362: 1, H0510: 1, H0181: 1, L0769: 1, L0542: 1, L0789: 1, H0187: 1, L0743: 1, L0779: 1 and L0777: 1.		189-212, 5-21
1073	HISBV17	883238	1083	10 - 594	2488		AR052: 4, AR053: 4, AR033: 3, AR039: 2, AR104: 2, AR089: 1, AR055: 1, AR061: 1, AR060: 1, AR096: 1		126-154, 169-190, 57-73, 87-103, 2-18
1074	HFKLN07	883248	1084	700 - 1323	2489	Arg-22 to Asn-32, Arg-59 to Phe-83, Glu-197 to Asp-203.	AR039: 26, AR104: 13, AR096: 12, AR033: 12, AR055: 12, AR053: 12,		120-138, 160-177

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No	Clone	cDNA Clone ID	Contig	NT Range	SEQ ID	Signal Peptide	Library Expression	Coordinates
1076	HSLHV27	883287	1086	127 - 960	2491	Pro-51 to Gly-58.	AR053: 9, AR033: 8, AR089: 7, AR052: 7, AR060: 7, AR061: 5, AR096: 5, AR104: 4, H0618: 1 and H0038: 1.	114-143, 255-278, 154-179, 34-61, 2-21, 85-101, 66-82, 233-249, 208-224
1077	HSLJG70	883295	1087	193 - 819	2492		AR060: 3, AR061: 1, AR033: 1, AR039: 1, AR104: 1, AR055: 1, AR096: 1, AR089: 1, AR053: 0, AR052: 0, S0028: 1	121-145, 143-166, 53-75, 2-28, 26-46, 94-110, 171-187
1078	HSFAK30	883301	1088	300 - 1052	2493	Thr-97 to Ile-105, Phe-111 to Tyr-116, Gly-139 to Thr-147, Leu-155 to Tyr-161, Thr-177 to Gln-189.	AR089: 3, AR039: 3, AR060: 2, AR055: 2, AR053: 2, AR096: 2, AR061: 1, AR033: 1, AR104: 1, H0550: 1 and S0390: 1. AR089: 14, AR053: 10, AR055: 9, AR033: 9, AR060: 9, AR052: 8, AR096: 7, AR061: 6, AR039: 4, AR104: 3, L0749: 4, L0770: 2, H0254: 1, H0662: 1, L0534: 1, L0562: 1, S0442: 1, H0154: 1, S0002: 1, L0385:	197-226, 10-26

| 1079 | HTTBM62 | 883307 | 1089 | 15 - 1493 | 2494 | 1, H0134: 1 and L0748: 1. AR061: 9, AR055: 8, AR033: 4, AR052: 4, AR060: 4, AR089: 3, AR053: 3, AR104: 2, AR096: 2, AR039: 1 H0046: 6, L0717: 2, L0770: 2, L0769: 2, L0666: 2, H0265: 1, H0556: 1, S0342: 1, H0346: 1, H0459: 1, S0418: 1, L0103: 1, S0300: 1, H0600: 1, H0587: 1, H0642: 1, H0331: 1, H0486: 1, H0069: 1, H0421: 1, H0597: 1, H0083: 1, L0052: 1, H0673: 1, H0040: 1, H0272: 1, H0529: 1, L0637: 1, L0653: 1, L0512: 1, L0659: 1, L0809: 1, H0547: 1, H0519: 1, H0593: 1, H0683: 1, S0378: 1, S0406: 1, H0555: 1, L0741: 1, L0747: 1, L0753: 1, S0031: 1, L0604: 1, S0011: 1 and S0424: 1. | 262-282, 100-116, 75-91 |
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| 1081 | HDPGU86 | 883328 | 1091 | 400 - 789 | 2496 | AR096: 5, AR039: 4, AR104: 3, AR053: 3, AR052: 3, AR089: 2, AR055: 2, AR033: 2, AR061: 2, AR060: 1 L0766: 5, S0418: 4, H0135: 3, H0144: 3, S0152: 3, L0439: 3, L0777: 3, L0758: 3, H0009: 2, L0769: 2, L0771: 2, L0378: 2, L0663: 2, H0547: 2, L0740: 2, L0751: 2, S0436: 2, L0485: 2, H0556: 1, S0134: 1, H0657: 1, H0484: 1, S0420: 1, S0354: 1, L0717: 1, S0222: 1, H0270: 1, T0039: 1, L0021: 1, H0263: 1, H0620: 1, H0266: 1, H0687: 1, H0252: 1, H0604: 1, H0628: 1, H0617: 1, H0606: 1, H0264: 1, H0100: | AR061: 2, AR039: 0 S0152: 3, H0009: 2, H0135: 2, H0547: 2, L0439: 2, S0418: 1, S0354: 1, H0620: 1, H0264: 1, L0558: 1, H0519: 1, H0435: 1, H0539: 1, H0521: 1, L0751: 1, S0436: 1, S0192: 1 and H0506: 1. | 32-65, 1-19, 23-39 |

| 1082 | H2CBE07 | 883335 | 1092 | 598 - 1317 | 2497 | Lys-219 to Asn-232, Pro-235 to Ala-240. | 1, H0560: 1, H0561: 1, L0796: 1, L0639: 1, L0646: 1, L0764: 1, L0768: 1, L0794: 1, L0774: 1, L0776: 1, L0558: 1, L0783: 1, L0383: 1, L0519: 1, L0789: 1, L0793: 1, L0666: 1, L0438: 1, H0519: 1, H0435: 1, S0328: 1, H0539: 1, H0521: 1, H0696: 1, H0134: 1, L0747: 1, L0779: 1, L0752: 1, L0731: 1, L0593: 1, H0665: 1, S0192: 1 and H0506: 1.   AR104: 1, AR053: 1, AR089: 1, AR061: 1, AR060: 0, AR055: 0, AR052: 0, AR033: 0, AR096: 0, AR039: 0 S0003: 7, H0046: 6, L0766: 5, L0731: 5, L0794: 4, L0805: 4, L0804: 3, L0748: 3, L0747: 3, L0777: 3, L0758: 3, H0556: 2, S0418: 2, S0442: 2, H0333: 2, H0331: 2, H0253: 2, L0598: 2, L0803: 2, L0775: 2, L0776: 2, L0789: 2, L0602: 2, S3014: 2, L0439: 2, L0749: 2, L0753: 2, | 196-219, 66-85, 25-47, 148-166, 121-138, 166-182 |

| 1083 | HFIHS04 | 883358 | 1093 | 42 - 755 | 2498 | Pro-30 to Ser-38, Gly-69 to Leu-79, Thr-147 to Gly-158, Tyr-220 to Glu-238. | L0608: 2, L0362: 2, S0040: 1, S0218: 1, H0583: 1, H0650: 1, H0656: 1, L0415: 1, H0720: 1, H0638: 1, S0354: 1, H0580: 1, H0250: 1, H0599: 1, H0618: 1, H0309: 1, T0110: 1, H0178: 1, H0123: 1, H0024: 1, H0428: 1, T0023: 1, L0483: 1, H0628: 1, H0316: 1, T0067: 1, H0488: 1, S0344: 1, H0538: 1, UNKWN: 1, L0770: 1, L0769: 1, L0637: 1, L0764: 1, L0768: 1, L0375: 1, L0651: 1, L0806: 1, L0655: 1, L0659: 1, L0809: 1, L0663: 1, L0665: 1, H0725: 1, S0328: 1, H0539: 1, H0521: 1, H0436: 1, S3012: 1, L0779: 1, L0757: 1, S0308: 1, L0591: 1, L0599: 1, H0668: 1 and H0422: 1. AR096: 7, AR089: 4, AR061: 4, AR060: 3, AR033: 3, AR052: 3, AR104: 3, AR039: 2, AR055: 1, AR053: 1 L0748: 5, S0276: 3, S0410: 2, H0012: 2, H0024: 2, | 84-112, 39-66, 196-212, 157-175, 5-21 |

1084	HTXLLP33	883359	1094	67 - 486	2499	Gln-55 to Asn-65.	AR055: 7, AR053: 7, AR052: 6, AR033: 5, AR096: 4, AR039: 4, AR089: 4, AR061: 4, AR060: 3, AR104: 2 S0328: 4, H0556: 3, L0438: 2, L0742: 2, L0777: 2, H0170: 1, H0083: 1, H0598: 1, H0616: 1, L0770: 1, L0766: 1, L0655: 1, L0779: 1, H0445: 1 and L0608: 1. / H0521: 2, L0439: 2, H0662: 1, S0420: 1, S0358: 1, S0132: 1, H0431: 1, H0586: 1, H0486: 1, H0013: 1, H0575: 1, H0090: 1, S0438: 1, H0509: 1, L0518: 1, H0539: 1, S0434: 1, S0242: 1 and S0194: 1.	110-129
1085	HMEKG76	883364	1095	265 - 1125	2500	Glu-2 to Arg-10, Lys-18 to Lys-28, His-76 to Gly-84, Ser-101 to Gln-116, Asp-194 to Glu-199, Pro-239 to Ala-245, Asp-257 to Ser-272.	AR033: 7, AR055: 5, AR052: 5, AR053: 5, AR089: 4, AR060: 4, AR061: 3, AR096: 3, AR104: 3, AR039: 0 H0618: 6, L0769: 5, H0794: 5, L0439: 5, L0747: 5, L0766: 4, L0803: 4, S3014: 4, L0748: 4, L0758:	123-139, 152-168

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L0805: 3, L0438: 3, H0521:
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H0574: 2, H0599: 2, H0253:
2, S0474: 2, H0196: 2,
L0471: 2, H0266: 2, T0006:
2, H0708: 2, H0135: 2,
H0616: 2, L0659: 2, H0660:
2, L0740: 2, L0756: 2,
L0779: 2, L0731: 2, L0759:
2, L0785: 1, S0116: 1,
H0671: 1, H0661: 1, S0442:
1, S0360: 1, H0733: 1,
H0549: 1, H0431: 1, S0280:
1, H0569: 1, H0123: 1,
H0050: 1, H0630: 1, H0375:
1, S0318: 1, H0644: 1,
H0163: 1, H0090: 1, H0380:
1, H0131: 1, S0344: 1,
S0422: 1, S0426: 1, L0369:
1, L0662: 1, L0363: 1,
L0768: 1, L0653: 1, L0655:
1, L0809: 1, L0789: 1,
L0665: 1, H0519: 1, H0689:
1, H0684: 1, H0522: 1,
H0436: 1, S3012: 1, S0027:
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S0436: 1, L0361: 1, H0653:
1, H0543: 1, H0423: 1,
S0424: 1 and H0506: 1.

1086	HTENG02	883375	1096	110 - 607	2501	Tyr-92 to Glu-97.	AR055: 7, AR061: 5, AR033: 4, AR060: 4, AR052: 3, AR089: 3, AR053: 3, AR096: 3, AR104: 1, AR039: 1 H0009: 2, H0031: 2, L0596: 2, H0295: 1, H0341: 1, H0483: 1, S0358: 1, S0410: 1, H0497: 1, H0616: 1, S0440: 1, L0800: 1, L0794: 1, L0649: 1, L0803: 1, L0657: 1, L0791: 1, S0152: 1, L0779: 1, S0436: 1 and H0542: 1.			32-64, 71-89, 98-115
1087	HTOAW80	883376	1097	285 - 1244	2502	Asn-82 to Tyr-87.	AR053: 9, AR096: 7, AR052: 7, AR089: 5, AR055: 4, AR039: 3, AR060: 3, AR104: 3, AR033: 2, AR061: 2 H0506: 4, S0434: 2 and H0264: 1.			13-46, 245-273, 50-73, 205-234, 180-199, 98-114
1088	HAJAW57	883401	1098	47 - 1036	2503	Arg-6 to Gly-28, Lys-35 to His-47, Glu-50 to Lys-63, Leu-65 to Asn-86, Arg-93 to Asn-109, Ser-116 to Asp-136.	AR096: 13, AR033: 12, AR052: 11, AR053: 11, AR089: 10, AR104: 10, AR060: 7, AR039: 4, AR055: 2, AR061: 2 L0754: 15, L0748: 14, L0439: 9, H0543: 9, L0766: 7, L0747: 7, L0779: 7,			238-258, 262-280

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S0436: 2, L0596: 2, L0588: 2, L0591: 2, L0592: 2, L0581: 2, H0395: 1, H0556: 1, H0685: 1, H0713: 1, H0717: 1, H0716: 1, S0134: 1, H0583: 1, H0650: 1, H0656: 1, L0785: 1, H0341: 1, S0282: 1, H0346: 1, H0664: 1, H0662: 1, H0402: 1, H0305: 1, H0589: 1, S0418: 1, S0420: 1, S0356: 1, S0442: 1, S0376: 1, H0580: 1, S0046: 1, H0393: 1, S6016: 1, H0455: 1, H0586: 1, H0587: 1, H0497: 1, T0040: 1, H0427: 1, S0280: 1, H0156: 1, L0021: 1, S0010: 1, H0318: 1, H0581: 1, H0421: 1, S0049: 1, H0596: 1, H0546: 1, H0009: 1, H0572: 1, L0471: 1, S0388: 1, T0010: 1, H0083: 1, H0630: 1, H0375: 1, S0250: 1, H0252: 1, H0328: 1, H0615: 1, H0428: 1, H0213: 1, H0031: 1, H0553: 1, H0628: 1, H0673: 1, H0400: 1, S0036: 1, H0163: 1, H0616: 1, T0041: 1, H0561: 1, S0382: 1,

| 1089 | HTEHF89 | 883419 | 1099 | 698 - 3 | 2504 | Pro-35 to Cys-46, Pro-48 to Glu-54, Tyr-79 to Ser-85. | S0306: 1, S0438: 1, H0509: 1, S0344: 1, H0538: 1, H0529: 1, L0506: 1, L0371: 1, L0637: 1, L0667: 1, L0630: 1, L0764: 1, L0773: 1, L0768: 1, L0364: 1, L5574: 1, L0804: 1, L0774: 1, L0784: 1, L0378: 1, L0806: 1, L0606: 1, L0809: 1, L0791: 1, L0793: 1, L0663: 1, S0052: 1, S0216: 1, H0435: 1, H0658: 1, H0670: 1, H0648: 1, H0672: 1, H0522: 1, S0146: 1, S0027: 1, S0032: 1, L0741: 1, L0744: 1, L0751: 1, L0752: 1, L0753: 1, L0755: 1, L0757: 1, S0031: 1, L0608: 1, L0361: 1, S0026: 1, H0665: 1, S0242: 1, S0276: 1, H0542: 1, H0422: 1, L0462: 1 and H0352: 1. AR096: 1, AR104: 1, AR060: 1, AR033: 1, AR055: 1, AR089: 1, AR039: 0, AR053: 0, AR061: 0, AR052: 0 H0046: 9, H0038: 2, H0170: 1, H0455: 1, H0486: 1, H0013: 1, S0010: 1, | 148-180, 90-109, 191-207, 58-76 |

1090	HSYBB84	883420	1100	88 - 567	2505			84-103, 52-70
					Pro-29 to Cys-40, Pro-42 to Glu-48, Tyr-73 to Ser-79.	AR096: 7, AR033: 5, AR052: 5, AR089: 5, AR060: 4, AR104: 4, AR039: 4, AR053: 4, AR061: 1, AR055: 1 L0439: 11, H0046: 9, L0766: 6, L0777: 5, L0759: 5, L0438: 4, L0740: 4, H0486: 3, L0659: 3, H0539: 3, L0750: 3, S0358: 2, S6028: 2, H0688: 2, H0553: 2, H0038: 2, H0551: 2, L0666: 2, H0547: 2, L0752: 2, L0758: 2, S0434: 2, H0170: 1, H0740: 1, H0638: 1, S0444: 1, S0360: 1, H0455: 1, H0013: 1, H0156: 1, H0575: 1, S0010: 1, H0052: 1, H0327: 1, S0250: 1, S0214: 1, H0328: 1, H0428: 1, H0040: 1, H0268: 1, L0435: 1, H0560: 1, S0352: 1, L0769: 1, L0646: 1, L0662: 1, L0774: 1, L0775: 1, L0776: 1, L0655: 1	H0052: 1, H0327: 1, S6028: 1, S0214: 1, H0328: 1, H0040: 1, H0551: 1, H0268: 1, H0560: 1, H0520: 1 and H0519: 1.	

| 1091 | HTJMD30 | 883430 | 1101 | 135 - 632 | 2506 | Asn-6 to Gln-38, Gly-41 to Arg-49, Gln-57 to Gln-65, Gln-68 to Thr-74, Ala-76 to Leu-92. | AR052: 2, AR061: 1, AR089: 1, AR104: 1, AR053: 1, AR033: 1, AR060: 1, AR096: 0, AR055: 0, AR039: 0 H0494: 4, H0521: 3, S3014: 3, S0354: 2, S0476: 2, H0083: 2, H0252: 2, H0644: 2, S0126: 2, S0152: 2, S0027: 2, S0028: 2, S0011: 2, H0543: 2, H0556: 1, S0040: 1, H0341: 1, S0282: 1, H0638: 1, S0442: 1, H0580: 1, H0393: 1, S0278: 1, H0437: 1, H0431: 1, H0497: 1, T0040: 1, T0114: 1, H0156: 1, H0097: 1, H0599: 1, H0024: 1, H0051: 1, H0355: 1, H0266: 1, H0031: 1, H0163: 1, H0634: 1, H0551: 1, H0264: 1, H0488: 1, H0268: 1, H0412: 1, H0056: 1, H0623: 1, L0663: 1, L0664: 1, L0665: 1, H0144: 1, S0374: 1, H0520: 1, H0519: 1, H0659: 1, S0330: 1, S0406: 1, S0028: 1, L0749: 1, L0753: 1, H0668: 1, S0026: 1 and H0667: 1. | 126-143, 148-164 |

| 1092 | HELFG05 | 883434 | 1102 | 1721 - 1296 | 2507 | Pro-2 to Glu-8, Thr-26 to Asp-32, Pro-70 to Arg-77, Ser-89 to Thr-95. | AR104: 1, AR052: 1, AR055: 1, AR033: 1, AR061: 1, AR039: 0, AR089: 0, AR053: 0, AR060: 0, AR096: 0 L0794: 10, L0809: 9, L0750: 9, L0791: 7, L0747: 7, L0758: 6, L0759: 6, H0620: 5, L0749: 5, S0358: 4, H0135: 4, L0769: 4, L0800: 4, L0805: 4, L0659: 4, H0556: 3, L0471: 3, H0040: 3, L0804: 3, S0360: 2, H0393: 2, H0550: 2, H0592: 2, H0333: 2, S0049: 2, H0124: 2, S0438: 2, L0771: 2, L0662: 2, L0803: 2, L4501: 2, H0547: 2, L0731: 2, L0779: 2, L0755: 2, L0731: 2, S0434: 2, L0603: 2, H0506: 2, H0713: 1, H0717: 1, H0294: 1, H0662: 1, H0729: 1, S0045: 1, H0607: 1, H0586: 1, H0587: 1, T0040: 1, S0280: 1, H0590: 1, H0561: 1, H0547: 1, H0519: 1, H0593: 1, H0539: 1, H0134: 1, H0436: 1, S3012: 1, H0445: 1, L0593: 1 and H0422: 1. | 126-142 |

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1093	HHEHG38	883493	1103	88 - 1722	2508	Gly-6 to Leu-13, Lys-15 to His-20, Ile-70 to Lys-76, Tyr-145 to Thr-150, Ser-223 to Met-228, Gly-252 to Gly-258, Glu-339 to Tyr-351, Leu-379 to Ile-387, Lys-394 to Thr-404.	1, S0010: 1, H0581: 1, H0251: 1, H0041: 1, H0565: 1, H0570: 1, H0123: 1, H0081: 1, H0050: 1, H0188: 1, H0039: 1, H0622: 1, H0038: 1, H0063: 1, H0412: 1, H0413: 1, S0440: 1, S0210: 1, S0002: 1, L0763: 1, L0770: 1, L0761: 1, L0641: 1, L0768: 1, L0766: 1, L0375: 1, L0806: 1, L0776: 1, L0789: 1, L0790: 1, L0666: 1, L0663: 1, L0665: 1, H0520: 1, H0660: 1, H0672: 1, H0539: 1, S0380: 1, H0521: 1, H0696: 1, H0555: 1, L0744: 1, L0748: 1, L0780: 1, L0757: 1, H0445: 1, L0584: 1, L0589: 1, S0242: 1, S0194: 1, H0008: 1 and H0352: 1. AR039: 7, AR061: 6, AR104: 5, AR053: 5, AR096: 5, AR033: 5, AR052: 5, AR055: 4, AR089: 4, AR060: 4 L0779: 1, L0777: 1 and H0542: 1.	93-110, 405-421, 189-205, 444-460, 22-38, 231-247

1094	HSLDT25	883540	50 - 679	2509		AR052: 18, AR033: 13, AR096: 12, AR089: 12, AR053: 10, AR060: 7, AR061: 6, AR104: 6, AR055: 6, AR039: 5 S0028: 1	11-38, 59-82, 89-118, 115-138, 145-163
1095	HSDGH19	883575	374 - 697	2510	Pro-5 to Lys-11, Ala-21 to Ser-26, Asp-50 to Thr-56, Cys-90 to Ile-96, Val-103 to Gln-108.	AR096: 25, AR039: 22, AR104: 19, AR089: 18, AR053: 17, AR033: 16, AR052: 14, AR060: 14, AR055: 12, AR061: 7 H0521: 2, S0031: 2, H0305: 1, H0619: 1, H0635: 1, H0318: 1, H0309: 1, H0090: 1, H0059: 1, S0002: 1, H0435: 1 and L0740: 1.	67-90, 31-47
1096	HCEOU19	883591	2 - 373	2511	Asp-21 to Cys-41, Pro-43 to Leu-51, Ala-111 to Trp-118.	AR089: 5, AR053: 5, AR060: 4, AR096: 4, AR033: 3, AR039: 2, AR055: 2, AR061: 2, AR104: 2, AR052: 1 L0751: 4, L0803: 3, H0052: 2, H0125: 1, S0442: 1, H0009: 1, S0003: 1, L0055: 1, L0662: 1, L0774: 1, L0659: 1, L0789: 1, H0214: 1, L0749: 1 and L0605: 1.	72-106, 1-20
1097	HBIMF04	883607	1107	126 -	2512	Met-1 to His-10,	AR053: 4, AR052: 3,	287-303,

1253	Leu-51 to Leu-60, Ser-84 to Val-91, Pro-222 to Asp-227, Glu-229 to Leu-236.	AR055: 3, AR033: 3, AR096: 3, AR089: 3, AR104: 3, AR060: 2, AR039: 2, AR061: 2 H0457: 11, L0766: 8, H0436: 5, L0747: 4, H0486: 3, H0620: 3, H0520: 3, H0341: 2, H0255: 2, H0402: 2, S0358: 2, H0581: 2, H0024: 2, H0405: 2, H0617: 2, L0761: 2, L0662: 2, L0768: 2, L0803: 2, L0776: 2, L0663: 2, H0691: 2, H0547: 2, H0555: 2, L0742: 2, L0779: 2, L0731: 2, H0543: 2, H0265: 1, H0584: 1, H0583: 1, H0650: 1, H0657: 1, H0656: 1, H0484: 1, H0125: 1, S0360: 1, H0549: 1, H0550: 1, H0613: 1, H0600: 1, H0592: 1, H0069: 1, H0618: 1, H0253: 1, H0318: 1, L0738: 1, H0544: 1, H0546: 1, H0009: 1, H0594: 1, H0266: 1, H0179: 1, H0271: 1, H0622: 1, H0606: 1, H0135: 1, H0040: 1, H0488: 1, H0494: 1, H0560: 1, S0372: 1, S0002: 1, H0695: 1, L0769:	142-158, 331-347

1098	HSKZE56	883619	1108	30 - 1079	2513		
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Row 1099 (HLJBD90, 883638, 1109, 731–1324, 2514): Ala-2 to Tyr-20.
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AR055: 2, AR052: 2, AR053: 2, AR033: 2, AR096: 2, AR039: 2, AR060: 1, AR061: 1, AR089: 1, AR104: 0

Row 1100 (HAUAX28, 883675, 1110, 515–967, 2515): Phe-85 to Gly-96, Glu-133 to Thr-143.
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L0509: 10, L0766: 6, L0504: 5, L0775: 4, L0499: 3, L0493: 3, L0515: 3, L0511: 3, L0809: 3, L0747: 3, L0502: 2, L0500: 2, L0771: 2, L0510: 2, L0512: 2, L0748: 2, L0439: 2, L0751: 2, L0779: 2, L0752: 2, L0731: 2, L0759: 2, L0593: 2, H0294: 1, H0125: 1, S0418: 1, S0420: 1, L0005: 1, S0358: 1, S0444: 1, S0045: 1, H0549: 1,

1101	HUCPU88	883702	1111	923 - 3	2516	Lys-8 to Arg-18.	H0438: 1, H0559: 1, H0486: 1, H0318: 1, S0049: 1, L0471: 1, H0083: 1, S6028: 1, H0376: 1, H0090: 1, H0509: 1, H0529: 1, L0506: 1, L0763: 1, L0772: 1, L0764: 1, L0662: 1, L0774: 1, L0438: 1, H0689: 1, H0684: 1, H0658: 1, H0670: 1, H0660: 1, H0696: 1, S0044: 1, H0134: 1, L0740: 1, L0749: 1, L0755: 1, H0543: 1 and H0422: 1. AR039: 53, AR053: 31, AR033: 23, AR052: 22, AR089: 20, AR055: 16, AR104: 15, AR096: 14, AR060: 13, AR061: 10 S0420: 1	19p13.3	108725, 120700, 133171, 136836, 145981, 147141, 164953, 188070, 600957, 601238, 601846, 602216, 602477	279-301
1102	HFXKJ22	883713	1112	22 - 438	2517		AR096: 5, AR053: 5, AR089: 4, AR052: 4, AR060: 3, AR033: 2,			20-42, 108-127, 1-18, 58-

No.	Name	cDNA	ID	Region	SEQ	Amino acid regions	Counts	Location	Numbers	Additional	Residues
1103	HWHPD05	883740	1113	133 - 1566	2518	Pro-44 to Lys-55, Pro-72 to Ser-79, His-138 to Lys-145, Leu-150 to Asp-155, Leu-164 to Val-170, Thr-173 to Gly-182, Gly-194 to Lys-204, Pro-233 to Gln-241, Pro-243 to Ala-255, Ser-469 to Asp-478.	AR096: 1, AR104: 1, AR060: 0, AR052: 0, AR039: 0 L0439: 3, H0587: 1 and H0560: 1.		74	AR055: 2, AR039: 1, AR104: 1, AR061: 1 S0282: 2 and H0352: 1.	360-382, 215-231, 341-357
1104	HFRAN15	883797	1114	703 - 1347	2519	Tyr-86 to Pro-93, Pro-143 to Ala-151, Leu-178 to Arg-189.	AR096: 4, AR060: 3, AR089: 3, AR053: 2, AR055: 2, AR061: 2, AR033: 2, AR104: 1, AR052: 1, AR039: 0 H0617: 2 and S0050: 1.				16-39, 64-85, 41-60, 99-115, 150-166
1105	HHGCV39	883848	1115	40 - 390	2520		AR052: 24, AR055: 19, AR053: 17, AR096: 17, AR060: 16, AR033: 15, AR104: 15, AR089: 13, AR061: 11, AR039: 8 L0759: 6, L0769: 5, L0052: 4, L0770: 4, L0809: 4, L0439: 4, L0752: 4, S0408: 3, L0751: 3, L0747: 3, L0779: 3, S0007: 2,	19q13.1-q13.2	107741, 113900, 122720, 122720, 126340, 126391, 160900, 164731, 172400, 172400,		71-93, 15-31

| 1106 | HMAFM80 | 883887 | 1116 | 279 - 758 | 2521 | Met-40 to Thr-47. | H0351: 2, H0333: 2, H0427: 2, H0581: 2, L0662: 2, L0649: 2, L0774: 2, L0806: 2, L0666: 2, L0741: 2, L0777: 2, H0543: 2, H0739: 1, H0171: 1, H0254: 1, H0125: 1, H0675: 1, H0722: 1, H0733: 1, S0140: 1, H0261: 1, H0592: 1, H0586: 1, H0587: 1, H0257: 1, H0486: 1, L0022: 1, H0042: 1, H0150: 1, H0086: 1, H0123: 1, T0010: 1, H0266: 1, H0673: 1, S0364: 1, H0063: 1, H0087: 1, H0494: 1, H0560: 1, H0538: 1, L0761: 1, L0772: 1, L0646: 1, L0765: 1, L0766: 1, L0805: 1, L0776: 1, L0807: 1, L0657: 1, L0783: 1, H0547: 1, S0126: 1, H0435: 1, S0330: 1, H0521: 1, H0522: 1, L0743: 1, L0749: 1, L0750: 1, L0786: 1, L0753: 1, L0755: 1, L0731: 1, L0758: 1, S0436: 1, S0011: 1 and S0192: 1. AR033: 2, AR089: 2, AR052: 2, AR060: 2, AR061: 2, AR055: 1, | 173850, 180901, 180901, 207750, 221770, 248600, 258501, 600918, 602716 | 44-73, 88-110, 10-26, 109- |

| 1107 | HAPOW71 | 883889 | 1117 | 682 - 1392 | 2522 | Glu-12 to Gln-18, Thr-41 to Asn-51, Lys-96 to Ser-104, Arg-176 to Ser-186, Ile-200 to Asn-205, Ser-224 to Ser-231. | AR096: 1, AR053: 0, AR104: 0, AR039: 0 H0457: 3, L0776: 3, H0253: 2, L0769: 2, L0766: 2, S0044: 2, L0731: 2, L0605: 2, H0556: 1, H0449: 1, S0360: 1, H0393: 1, H0586: 1, L0622: 1, H0156: 1, H0706: 1, T0048: 1, H0318: 1, H0052: 1, H0545: 1, H0563: 1, H0081: 1, S0250: 1, H0135: 1, H0038: 1, H0494: 1, S0144: 1, S0344: 1, S0002: 1, L0369: 1, L0762: 1, L0662: 1, L0549: 1, L0653: 1, L0807: 1, L0519: 1, L0666: 1, L0665: 1, H0521: 1, S3014: 1, S0027: 1, L0779: 1, L0758: 1, L0593: 1, H0668: 1 and S0398: 1. | 125 |
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1108	HBCBW64	883947	1118	563 - 78	2523		79-105

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AR033: 5, AR089: 3, AR060: 2, AR061: 2, AR096: 1, AR052: 1, AR055: 1, AR053: 1, AR104: 0, AR039: 0 H0618: 7, H0424: 6, L0758: 6, L0777: 5, H0556: 4, H0370: 2, H0013: 2, H0253: 2, H0038: 2, H0616: 2, L0800: 2, L0776: 2, L0665: 2, S0126: 2, H0672: 2, L0602: 2, L0439: 2, L0752: 2, L0731: 2, L0595:

1109	HBING74	883950	1119	639 - 1637	2524				222-240
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1110	HBIMJ94	883951	1120	76 - 1824	2525			22q13.33	532-558, 36-52, 502-518
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1111	HNFCI36	884007	1121	65 - 961	2526			
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1112	HAFAH26	884076	1122	43 - 1053	2527		AR033: 7, AR060: 5, AR061: 5, AR055: 5, AR089: 4, AR052: 3, AR053: 3, AR096: 2, AR039: 2, AR104: 1 H0643: 2, L0803: 2, S0452: 2, T0049: 1, H0580: 1, H0013: 1, H0156: 1, H0581: 1, H0179: 1, H0271: 1, H0040: 1, S0422: 1, L0369: 1, L0766: 1, L0655: 1, L0607: 1, L0791: 1, H0693: 1, H0670: 1, S0380: 1, H0579: 1, L0777: 1, L0752: 1, S0011: 1 and H0653: 1.	27-64, 22-39, 133-149, 186-202, 218-234
1113	HE8MV45	884379	1123	164 - 775	2528	Gln-109 to Gln-115, Gln-149 to Ala-154.	AR052: 6, AR055: 4, AR053: 4, AR060: 3, AR033: 3, AR096: 2, AR039: 2, AR089: 2, AR061: 2, AR104: 2	8-27, 74-90
1114	HUKEQ96	884532	1124	865 - 563	2529	Arg-49 to Ala-55.	AR033: 19, AR104: 18, AR055: 15, AR060: 10, AR052: 9, AR061: 9, AR089: 8, AR053: 8, AR096: 8, AR039: 4 L0439: 58, L0438: 21, H0556: 7, H0052: 7, L0771:	73-89, 1-17

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H0492: 2, H0486: 2, H0581:
2, H0620: 2, T0010: 2,
H0266: 2, H0604: 2, H0031:
2, H0100: 2, L0662: 2,
L0768: 2, L0665: 2, H0144:
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H0521: 2, L0746: 2, L0756:
2, L0777: 2, L0731: 2,
H0624: 1, T0002: 1, H0140:
1, H0583: 1, H0255: 1,
H0402: 1, H0305: 1, H0458:
1, S0420: 1, S0354: 1,
S0358: 1, H0645: 1, S6026:
1, S6022: 1, H0392: 1,
H0559: 1, H0013: 1, H0069:
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H0150: 1, H0041: 1, H0563:
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S0051: 1, H0271: 1, H0416:
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S0022: 1, L0483: 1, T0006:

1115	HKADF73	884660	1125	514 - 1134	2530			105-123, 143-159
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H0083: 2, H0135: 2, L0796:
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L0664: 2, L0665: 2, H0435:
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L0603: 2, S0276: 2, H0423:
2, H0624: 1, H0713: 1,
H0717: 1, H0650: 1, H0657:
1, H0692: 1, S0001: 1,
H0661: 1, H0638: 1, S0418:
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S0045: 1, S0046: 1, L0717:
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H0586: 1, L0622: 1, H0635:
1, S0280: 1, H0036: 1,
H0052: 1, H0189: 1, H0087:
1, H0413: 1, H0059: 1,
H0494: 1, H0695: 1, L0762:
1, L0640: 1, L0637: 1,
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1116	HSLEN72	884818	1126	79 - 435	2531		1, S0330: 1, H0539: 1, H0522: 1, S0406: 1, H0555: 1, L0756: 1, L0777: 1, L0731: 1, L0759: 1, S0434: 1, S0436: 1, S0192: 1, H0542: 1 and S0458: 1.	AR052: 2, AR089: 1, AR104: 1, AR060: 1, AR033: 0, AR096: 0, AR061: 0, AR055: 0, AR039: 0, AR053: 0 S0028: 4, S0031: 3, H0617: 2, S0150: 2, H0381: 1, S0001: 1, S0282: 1, S0045: 1, S0222: 1, S0005: 1, H0331: 1, L0105: 1, S0050: 1, S0051: 1, H0271: 1, H0165: 1, H0056: 1, S0428: 1, S0053: 1 and S0194: 1.	24-58, 95-119, 5-21
1117	HTXDM64	885098	1127	1274 - 789	2532	Lys-10 to Arg-17, Glu-31 to Ser-37, Thr-62 to Phe-70, Ser-83 to Gly-93.		AR055: 11, AR053: 8, AR060: 8, AR089: 7, AR096: 7, AR052: 6, AR061: 5, AR104: 5, AR039: 5, AR033: 5 H0305: 6, H0556: 3, L0599: 2, H0265: 1, S0134: 1, S0212: 1, H0632: 1, H0383: 1, L0664: 1, S0152:	98-126, 39-61

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1118	HAGDJ72	885264	1128	185-505	2533	Met-1 to Ser-8, Val-31 to Gly-36, Ser-73 to Ala-83, Ser-97 to Phe-102.	1, L0748: 1 and L0753: 1. AR055: 10, AR033: 5, AR060: 4, AR053: 4, AR061: 4, AR052: 3, AR089: 2, AR096: 2, AR104: 2, AR039: 1 S0010: 1, L0438: 1, H0659: 1 and L0439: 1.	37-70
1119	HTPHK88	885476	1129	438-908	2534	Lys-26 to Glu-49, Lys-121 to Leu-131.	AR055: 9, AR060: 6, AR089: 5, AR033: 4, AR052: 4, AR053: 4, AR061: 4, AR104: 2, AR096: 2, AR039: 2 H0622: 1, H0509: 1, H0144: 1, S0126: 1, L0750: 1 and L0759: 1.	1-27, 52-68
1120	HDPFA53	885596	1130	1038 - 1	2535	Gln-12 to Asp-18.	AR096: 9, AR060: 6, AR089: 5, AR104: 5, AR033: 4, AR039: 4, AR052: 4, AR055: 3, AR061: 2, AR053: 2 L0770: 5, L0751: 4, H0040: 3, L0766: 3, L0758: 3, S0358: 2, H0619: 2, H0266: 2, S0003: 2, H0553: 2, H0056: 2, L0775: 2, L0655: 2, L0665: 2, H0690: 2, H0696: 2, L0748: 2, L0754: 2, L0745: 2, L0777:	295-326, 279-301

| 1121 | HMSDQ93 | 886043 | 1131 | 160 - 459 | 2536 | Ile-26 to Lys-34. | 2, L0755: 2, L0731: 2, L0759: 2, H0624: 1, H0650: 1, S0282: 1, H0661: 1, S0442: 1, S0408: 1, H0580: 1, S0222: 1, H0587: 1, H0486: 1, T0114: 1, H0156: 1, L0021: 1, H0003: 1, H0575: 1, H0004: 1, S0346: 1, H0327: 1, H0050: 1, T0010: 1, H0375: 1, H0628: 1, S0036: 1, H0163: 1, H0634: 1, H0494: 1, H0509: 1, H0649: 1, L0598: 1, H0529: 1, L0369: 1, L0764: 1, L0381: 1, L0653: 1, L0776: 1, L0629: 1, H0520: 1, H0682: 1, H0659: 1, H0539: 1, H0521: 1, S0406: 1, H0436: 1, H0540: 1, L0744: 1, L0752: 1, L0596: 1, L0485: 1, S0026: 1, S0194: 1 and H0543: 1. AR052: 19, AR096: 14, AR089: 10, AR039: 7, AR053: 7, AR033: 6, AR060: 4, AR061: 3, AR055: 2, AR104: 1 H0580: 1, H0486: 1, H0328: 1, S0002: 1, S0330: 1 and H0521: 1. | 61-78 |

| 1122 | HSXAD12 | 886222 | 1132 | 341 - 793 | 2537 | Pro-111 to Gly-116, Ala-130 to Trp-142. | AR055: 9, AR052: 8, AR033: 6, AR060: 5, AR096: 5, AR061: 4, AR089: 4, AR039: 4, AR053: 4, AR104: 3 L0794: 10, L0766: 9, L0740: 9, L0749: 8, H0046: 7, L0758: 7, H0521: 6, L0803: 5, S0358: 4, H0457: 4, L0769: 4, L0744: 4, L0439: 4, L0747: 4, L0750: 4, L0779: 4, H0657: 3, H0266: 3, H0553: 3, H0090: 3, H0413: 3, L0770: 3, L0804: 3, L0775: 3, L0659: 3, L0438: 3, H0519: 3, S0152: 3, L0748: 3, L0731: 3, H0445: 3, S0026: 3, H0265: 2, S0212: 2, S0278: 2, H0050: 2, S0440: 2, S0002: 2, L0763: 2, L0761: 2, L0764: 2, L0771: 2, L0776: 2, L0809: 2, L0789: 2, S0126: 2, H0659: 2, H0660: 2, S0330: 2, H0539: 2, L0751: 2, L0777: 2, L0757: 2, L0595: 2, H0423: 2, H0624: 1, S0040: 1, H0583: 1, H0341: 1, H0484: 1, S0418: 1, S0420: 1, | | | 5-26, 54-70, 73-89 |

S0354: 1, S0376: 1, H0637: 1, H0580: 1, H0411: 1, H0549: 1, H0497: 1, H0574: 1, H0581: 1, H0421: 1, H0052: 1, H0251: 1, L0738: 1, H0544: 1, H0009: 1, H0123: 1, H0023: 1, H0014: 1, H0083: 1, S6028: 1, H0271: 1, H0284: 1, S0003: 1, H0674: 1, S0036: 1, H0038: 1, H0040: 1, H0063: 1, H0551: 1, H0059: 1, H0494: 1, H0509: 1, H0641: 1, S0142: 1, S0344: 1, H0538: 1, S0426: 1, L0631: 1, L0800: 1, L0641: 1, L0773: 1, L0648: 1, L0662: 1, L0767: 1, L0768: 1, L0774: 1, L0651: 1, L0805: 1, L0527: 1, L0518: 1, L0666: 1, L0663: 1, L0664: 1, L0665: 1, S0052: 1, H0144: 1, S0374: 1, H0547: 1, H0435: 1, H0648: 1, S0328: 1, L0602: 1, H0704: 1, H0627: 1, S3014: 1, L0754: 1, L0780: 1, L0753: 1, L0759: 1, S0434: 1, L0480: 1, L0589: 1 and L0608: 1.

1123	HWBAL42	886307	1133	563 - 177	2538	Arg-37 to Arg-46, Ser-71 to Gln-76.	AR052: 13, AR053: 9, AR096: 4, AR089: 4, AR060: 2, AR033: 2, AR104: 2, AR039: 1, AR055: 1, AR061: 1 H0547: 4, H0251: 3, H0521: 3, H0542: 3, H0266: 2, H0040: 2, L0646: 2, L0659: 2, L0665: 2, L0743: 2, L0754: 2, S0116: 1, S0354: 1, S0376: 1, H0580: 1, H0742: 1, H0486: 1, H0575: 1, H0318: 1, H0457: 1, H0084: 1, H0212: 1, H0059: 1, H0509: 1, H0142: 1, S0002: 1, L0764: 1, L0662: 1, L0626: 1, L0766: 1, L0809: 1, H0519: 1, H0672: 1, S0378: 1, S0174: 1, H0626: 1, S0027: 1, L0780: 1, L0755: 1, L0591: 1, S0026: 1, H0665: 1, H0543: 1 and H0422: 1.	48-65
1124	HUJBO10	886364	1134	204 - 1079	2539	Gln-56 to Leu-68, Glu-88 to Asn-95, Glu-122 to Leu-127, Val-136 to Cys-145, Gly-185 to Leu-191, Leu-239 to Lys-252.	AR089: 2, AR053: 2, AR060: 2, AR033: 2, AR104: 2, AR096: 2, AR039: 1, AR055: 1, AR061: 1, AR052: 0 L0779: 3, H0650: 1, H0560: 1, L0770: 1, L0806:	249-282, 274-290, 31-47

1125	HMUAP06	886417	1135	1684 - 905	2540	Val-62 to Gly-67, Glu-130 to Leu-135, Glu-164 to Glu-179, Glu-213 to Gly-223.	1, L0655: 1, H0444: 1, L0596: 1, L0591: 1 and S0424: 1. AR052: 5, AR053: 4, AR039: 3, AR033: 2, AR104: 2, AR089: 2, AR055: 2, AR096: 2, AR061: 2, AR060: 1 S0212: 1, T0114: 1, H0253: 1, H0266: 1, H0644: 1, H0494: 1, H0529: 1, H0435: 1, L0759: 1, L0596: 1 and H0423: 1.	239-255, 138-154, 179-195
1126	HLYCA31	886496	1136	956 - 261	2541	Met-1 to Pro-7, Ser-12 to His-19.	AR039: 25, AR033: 16, AR089: 13, AR104: 12, AR096: 12, AR053: 11, AR052: 10, AR055: 9, AR060: 9, AR061: 7 H0052: 3, L0666: 3, L0758: 3, S0007: 2, H0201: 2, H0090: 2, H0672: 2, L0748: 2, L0747: 2, L0749: 2, L0752: 2, H0445: 2, H0265: 1, S0134: 1, S0212: 1, S0348: 1, S0045: 1, H0393: 1, S0222: 1, T0060: 1, H0013: 1, T0082: 1, H0318: 1, L0471: 1, H0266: 1, L0455: 1, L0456: 1,	175-208

1127	HETIY94	886524	1137	88 - 612	2542	Pro-15 to Glu-25, Ala-107 to Gln-112.	S0366: 1, H0561: 1, H0131: 1, S0150: 1, H0538: 1, S0422: 1, L0774: 1, L0636: 1, H0547: 1, H0593: 1, S0136: 1, S0028: 1, L0751: 1, L0745: 1, L0779: 1, L0731: 1, L0759: 1, H0707: 1, H0423: 1 and S0446: 1.			23-59
							AR089: 6, AR055: 5, AR060: 5, AR033: 3, AR061: 3, AR052: 3, AR096: 3, AR104: 3, AR053: 2, AR039: 2 L0751: 2, L0803: 1, L0805: 1, S0374: 1, H0658: 1 and L0747: 1.			
1128	HRGBW44	886559	1138	78 - 1259	2543	Glu-7 to Trp-15, Glu-24 to Arg-31, Arg-71 to Pro-80, Glu-91 to Pro-98, Gln-112 to Thr-130, Asp-168 to Leu-175, Lys-202 to Lys-207, Glu-291 to Pro-298, Lys-332 to Ile-340, Asp-343 to Glu-351, Lys-363 to Ser-380, Leu-386 to Ala-393.	AR052: 49, AR096: 28, AR089: 27, AR053: 22, AR060: 20, AR039: 18, AR033: 11, AR061: 9, AR055: 6, AR104: 5 H0617: 6, L0748: 5, L0809: 4, L0581: 4, L0789: 3, L0747: 3, L0779: 3, L0518: 2, S0330: 2, L0743: 2, L0439: 2, L0749: 2, L0750: 2, H0170: 1, H0484: 1, H0497: 1, H0427: 1, H0599: 1, H0618: 1, H0544: 1.			37-56, 306-326, 258-281, 209-225, 178-194, 139-155

| 1129 | HMTAU01 | 886593 | 1139 | 274-1629 | 2544 | His-17 to Arg-24, Asp-46 to Leu-51, Glu-161 to Glu-172, Arg-273 to Glu-284, Pro-291 to Lys-296, Pro-317 to Ala-326, Pro-393 to Pro-410, Glu-416 to Ile-421. | 1, H0545: 1, H0150: 1, H0009: 1, H0562: 1, S0388: 1, H0687: 1, H0181: 1, H0166: 1, H0264: 1, S0112: 1, H0494: 1, H0509: 1, S0144: 1, S0344: 1, L0640: 1, L0770: 1, L0769: 1, L0766: 1, L0803: 1, L0776: 1, L0636: 1, L0790: 1, L0665: 1, H0547: 1, S0126: 1, H0672: 1, H0518: 1, H0134: 1, L0759: 1, S0434: 1, L0592: 1, H0543: 1, H0422: 1 and H0352: 1. AR053: 4, AR052: 4, AR096: 4, AR089: 3, AR060: 2, AR033: 2, AR055: 1, AR061: 1, AR104: 1, AR039: 0 L0748: 5, H0351: 3, L0794: 3, L0803: 3, L0779: 3, H0423: 3, L0766: 2, L0804: 2, H0686: 1, S0116: 1, S0354: 1, H0411: 1, H0600: 1, H0587: 1, H0486: 1, H0421: 1, H0565: 1, L0060: 1, H0551: 1, H0268: 1, H0059: 1, S0440: 1, H0646: 1, L0800: 1, L0805: 1, L0653: 1, L0776: 1, | 101-123, 138-154, 327-343, 365-381, 206-222, 77-93 |

| 1130 | HDPVO38 | 886670 | 1140 | 49 - 1644 | 2545 | Pro-46 to Arg-51, Leu-65 to Asp-70, Thr-103 to Pro-113. | AR033: 2, AR089: 2, AR060: 1, AR053: 1, AR039: 1, AR061: 1, AR055: 1, AR052: 0, AR096: 0, AR104: 0 L0794: 6, L0749: 5, L0756: 5, S0192: 5, L0805: 4, L0747: 4, L0752: 4, L0455: 3, H0038: 3, L0770: 3, L0793: 3, L0591: 3, H0046: 2, H0135: 2, L0769: 2, L0637: 2, L0776: 2, L0659: 2, L0518: 2, L0809: 2, L0565: 2, H0522: 2, L0748: 2, S0282: 1, H0664: 1, S0418: 1, S0420: 1, S0007: 1, S0132: 1, H0333: 1, H0486: 1, H0618: 1, S0010: 1, H0596: 1, L0040: 1, L0471: 1, S0051: 1, T0023: 1, H0316: 1, H0494: 1, S0440: 1, H0509: 1, H0647: 1, L0640: 1, L0772: 1, L0800: 1, L0641: 1, L0662: 1, L0768: 1, L0803: 1, L0774: 1, L0651: 1, | S0374: 1, H0658: 1, H0518: 1, H0436: 1, L0749: 1, L0758: 1, S0276: 1 and L0465: 1. | 271-288, 338-355, 128-144, 230-246, 311-327 |

1131	HSDKL35	886684	1141	137 - 484	2546	AR033: 11, AR104: 6, AR053: 5, AR089: 5, AR052: 5, AR061: 5, AR060: 5, AR055: 4, AR096: 4, AR039: 3 L0803: 13, L0794: 11, S0358: 10, L0766: 7, S0126: 7, L0439: 7, L0659: 6, L0608: 6, S0212: 5, H0521: 5, L0777: 5, S0360: 4, H0644: 4, L0769: 4, L0805: 4, L0809: 4, L0754: 4, S0354: 3, S0010: 3, H0581: 3, L0483: 3, L0800: 3, L0764: 3, L0806: 3, L0663: 3, S0374: 3, L0740: 3, L0591: 3, H0624: 2, H0638: 2, S0356: 2, S0132: 2, H0327: 2, H0510: 2, H0031: 2, S0036: 2, L0771: 2,	L0628: 1, L0559: 1, L0542: 1, L0787: 1, L0790: 1, L0665: 1, T0068: 1, H0547: 1, H0689: 1, H0684: 1, H0672: 1, S0378: 1, H0521: 1, H0555: 1, H0478: 1, S0028: 1, L0750: 1, L0779: 1, L0755: 1, L0759: 1, S0308: 1, L0361: 1 and S0458: 1.	24-55, 45-66, 1-22

L0662: 2, L0651: 2, H0519: 2, H0689: 2, H0518: 2, H0552: 2, S3014: 2, S0028: 2, L0745: 2, L0779: 2, L0752: 2, L0731: 2, L0757: 2, S0434: 2, L0596: 2, L0589: 2, L0599: 2, L0362: 2, H0170: 1, H0556: 1, S6024: 1, S0116: 1, S0282: 1, S0400: 1, H0661: 1, S0444: 1, H0676: 1, S0408: 1, T0008: 1, H0637: 1, H0580: 1, S0046: 1, L0717: 1, H0013: 1, L0021: 1, H0318: 1, S0474: 1, S0049: 1, H0263: 1, H0596: 1, H0024: 1, L0163: 1, S0051: 1, H0355: 1, S0003: 1, H0252: 1, T0006: 1, H0628: 1, H0124: 1, H0090: 1, H0040: 1, H0634: 1, S0372: 1, S0440: 1, H0633: 1, S0144: 1, S0426: 1, H0517: 1, L0796: 1, L0761: 1, L0667: 1, L0373: 1, L0374: 1, L0773: 1, L0364: 1, L0387: 1, L0804: 1, L0650: 1, L0774: 1, L0653: 1, L0776: 1, L0655: 1, L0628: 1, L0657: 1, L0782: 1,

| 1132 | HTLJA77 | 886742 | 1142 | 213 - 605 | 2547 | Gly-13 to Pro-21, Ser-67 to Pro-73, Gly-92 to Leu-98. | AR055: 12, AR061: 6, AR060: 6, AR033: 6, AR089: 5, AR096: 5, AR052: 5, AR039: 4, AR104: 3, AR053: 3 L0752: 7, L0747: 6, L0666: 5, L0803: 4, L0776: 4, S0222: 3, L0662: 3, L0766: 3, L0777: 3, L0361: 3, S0114: 2, H0254: 2, H0661: 2, S0354: 2, H0618: 2, H0594: 2, H0188: 2, H0424: 2, H0135: 2, L0764: 2, L0805: 2, L0655: 2, L0789: 2, L0532: 2, S0052: 2, L0438: 2, H0521: 2, L0742: 2, L0743: 2, L0754: 2, L0750: 2, L0755: 2, H0422: 2, H0685: 1, S0342: 1, H0713: 1, S0134: 1, L0790: 1, L0666: 1, L0665: 1, S0053: 1, H0144: 1, H0520: 1, H0435: 1, H0659: 1, H0648: 1, H0539: 1, S0380: 1, S0152: 1, H0522: 1, S0404: 1, S0406: 1, L0747: 1, L0756: 1, L0758: 1, S0260: 1, H0445: 1, L0366: 1, S0011: 1, H0665: 1, S0196: 1 and H0542: 1. | 37-67 |

1133	HCFLJ17	886761	1143	34 - 381	2548		88-107
					Glu-8 to Glu-18, Glu-32 to Ser-56.	H0583: 1, H0255: 1, H0402: 1, S0358: 1, S0476: 1, L0717: 1, H0392: 1, H0455: 1, H0613: 1, L0586: 1, S0280: 1, L0021: 1, H0706: 1, H0390: 1, H0581: 1, H0251: 1, H0544: 1, H0545: 1, H0046: 1, L0471: 1, T0010: 1, H0028: 1, H0615: 1, H0604: 1, H0673: 1, H0708: 1, H0413: 1, H0102: 1, L0770: 1, L0769: 1, L0772: 1, L0646: 1, L0364: 1, L0794: 1, L0774: 1, L0523: 1, L0806: 1, L0653: 1, L0659: 1, L0663: 1, L0664: 1, L0665: 1, H0144: 1, S0374: 1, H0435: 1, H0658: 1, H0660: 1, H0696: 1, H0576: 1, S0028: 1, L0748: 1, L0749: 1, L0756: 1, L0779: 1, L0758: 1, L0366: 1, S0194: 1, H0423: 1, S0458: 1, S0446: 1, H0506: 1 and H0352: 1. AR052: 8, AR053: 7, AR039: 6, AR096: 6, AR033: 5, AR089: 4, AR060: 4, AR055: 4, AR104: 3, AR061: 2	

L0758: 7, S0358: 5,
L0362: 5, L0766: 4, L0754:
4, H0423: 4, H0318: 3,
H0551: 3, H0529: 3, L0803:
3, H0519: 3, L0750: 3,
L0777: 3, H0650: 2, H0369:
2, H0575: 2, S0474: 2,
T0110: 2, S0003: 2, H0268:
2, L0770: 2, L0662: 2,
L0375: 2, H0144: 2, S0374:
2, S0152: 2, L0780: 2,
L0752: 2, L0731: 2, H0445:
2, L0596: 2, L0605: 2,
L0599: 2, L0608: 2, H0543:
2, H0624: 1, H0170: 1,
H0716: 1, H0657: 1, H0402:
1, S0420: 1, S0442: 1,
S0360: 1, H0675: 1, S0045:
1, S0476: 1, L0717: 1,
H0600: 1, H0587: 1, H0497:
1, H0574: 1, H0098: 1,
H0037: 1, L0105: 1, H0581:
1, H0052: 1, H0544: 1,
L0471: 1, H0060: 1, H0328:
1, H0622: 1, L0483: 1,
L0055: 1, H0598: 1, H0090:
1, H0040: 1, H0413: 1,
H0561: 1, L0638: 1, L0667:
1, L0646: 1, L0794: 1,
L0774: 1, L0805: 1, L0655:

1134	HNGKM74	886937	1144	26 - 988	2549	Phe-140 to Lys-151.	AR061: 4, AR055: 4, AR053: 4, AR060: 3, AR089: 3, AR052: 3, AR039: 3, AR033: 3, AR096: 3, AR104: 2 L0800: 1 and S0428: 1.	1, L0527: 1, L0657: 1, L0659: 1, L0526: 1, L0783: 1, L0809: 1, L4501: 1, L0666: 1, H0520: 1, H0547: 1, H0690: 1, H0658: 1, H0660: 1, H0521: 1, H0555: 1, H0436: 1, S0028: 1, L0742: 1, L0756: 1, S0192: 1, S0242: 1, S0194: 1 and S0276: 1.	168-190, 97-114, 207-223
1135	HTTJQ27	887007	1145	112 - 666	2550	Pro-2 to Cys-7, Ile-113 to Lys-118, Glu-162 to Ala-170.	AR055: 3, AR061: 3, AR033: 3, AR052: 3, AR089: 3, AR060: 2, AR096: 2, AR104: 2, AR053: 1, AR039: 1 S0250: 3, L0659: 3, H0038: 2, S0002: 2, S0330: 2, S0360: 1, H0604: 1, H0634: 1, L0764: 1, L0766: 1, H0660: 1, S0380: 1 and L0751: 1.		49-66
1136	HBCBF11	887008	1146	80 - 733	2551	Ser-57 to Gly-72, Thr-91 to Gly-96,	AR053: 2, AR089: 2, AR096: 2, AR055: 1,		125-159

					Asn-104 to Gln-112, Asp-119 to Lys-126.	AR052: 1, AR061: 1, AR104: 1, AR039: 1, AR033: 1 H0592: 2, L0754: 2, S0132: 1, H0370: 1, H0587: 1, S0344: 1, L0665: 1, H0682: 1 and H0555: 1.	77-102, 47-68
1137	HFOYG86	887019	247 - 570	2552	Arg-26 to Gly-34, Tyr-71 to Lys-77.	AR089: 3, AR052: 3, AR061: 2, AR060: 2, AR104: 2, AR033: 1, AR055: 1, AR053: 1, AR039: 0 L0777: 2, L0731: 2, L0659: 1 and S0276: 1.	
1138	HKGCJ92	887027	504 - 1166	2553	Lys-19 to Val-24, Ser-27 to Asn-37, Asn-82 to Leu-87.	AR039: 3, AR060: 3, AR089: 2, AR096: 2, AR055: 1, AR104: 1, AR033: 1, AR053: 1, AR061: 1, AR052: 0 H0538: 4, S0374: 4, S0444: 2, L0748: 2, S0442: 1, S0358: 1, H0156: 1, L0803: 1, L0774: 1 and L0608: 1.	182-208
1139	HFPAB23	887054	55 - 417	2554	Met-1 to Ile-11, Ser-21 to Val-26, Asn-42 to Asp-50, Gln-57 to Val-66, Gly-88 to Ala-98.	AR052: 7, AR061: 6, AR104: 5, AR055: 5, AR033: 5, AR060: 5, AR089: 4, AR096: 4, AR053: 2, AR039: 2	103-121

| 1140 | HWAGL92 | 887056 | 1150 | 769 - 185 | 2555 | Pro-22 to Gly-28, Gln-32 to Gln-38, Ser-60 to Phe-68, Cys-104 to Tyr-110, Lys-163 to Ser-172, Ser-175 to His-182, Gln-185 to Trp-194. | AR096: 16, AR033: 6, AR039: 6, AR053: 6, AR055: 4, AR052: 4, AR089: 4, AR060: 3, AR061: 2, AR104: 2 H0692: 7, L0766: 5, H0393: 3, H0250: 3, H0581: 3, L0779: 3, L0755: 3, S0354: 2, S0408: 2, L0754: 2, S0358: 1, S0376: 1, S0360: 1, H0640: 1, H0574: 1, H0486: 1, H0013: 1, H0004: 1, H0421: 1, H0239: 1, H0252: 1, H0031: 1, H0553: 1, H0644: 1, H0634: 1, S0144: 1, S0344: 1, L0794: 1, L0803: 1, L0804: 1, L0775: 1, L0653: 1, L0659: 1, S0374: 1, H0518: 1, S0044: 1, S0404: 1, H0555: 1, L0748: 1, L0756: 1, L0777: 1, L0752: 1, L0599: 1, H0653: 1 and H0506: 1. | H0171: 2, L0747: 2, H0624: 1, S6016: 1, S0222: 1, S0010: 1, H0620: 1, L0666: 1, L0665: 1 and L0777: 1. | | | 127-160, 80-96, 44-60 |

1141	HADME31	887280	1151	126 - 443	2556	AR096: 6, AR055: 6, AR039: 5, AR089: 5, AR033: 5, AR053: 5, AR060: 5, AR061: 5, AR052: 4, AR104: 3 L0747: 7, L0750: 6, L0770: 4, L0758: 4, L0769: 3, L0774: 2, L0748: 2, L0759: 2, S6024: 1, S0356: 1, S0360: 1, S0408: 1, H0333: 1, H0559: 1, H0486: 1, S0280: 1, H0390: 1, H0545: 1, L0471: 1, S0440: 1, H0641: 1, L0763: 1, L0775: 1, L0783: 1, L0809: 1, H0144: 1, H0690: 1, H0521: 1, S3012: 1, L0749: 1, L0752: 1 and L0590: 1.		88-105
1142	HEGBA84	887341	1152	17 - 1186	2557	AR039: 27, AR033: 17, AR089: 17, AR104: 16, AR053: 16, AR055: 15, AR060: 13, AR052: 12, AR096: 12, AR061: 9 L0769: 5, L0779: 4, L0759: 4, L0770: 3, L0775: 3, L0776: 3, L0439: 3, L0740: 2, L0747: 2, L0777: 2, L0601: 2, S0418: 1, L0429: 1, H0550: 1, H0253: 1, H0081: 1, H0207: 1,	Ser-17 to Ser-23, Gly-44 to Pro-50.	145-162, 116-132

| 1143 | HWHPM7 4 | 887540 | 1153 | 116 - 1048 | 2558 | Gln-71 to Tyr-78, Pro-130 to Ser-135. | AR096: 10, AR089: 7, AR060: 5, AR055: 5, AR053: 5, AR061: 5, AR039: 4, AR033: 4, AR104: 3, AR052: 2 H0494: 5, L0777: 3, L0747: 2, H0586: 1, H0587: 1, H0038: 1, L0768: 1, L0389: 1, L0775: 1, L0376: 1, L0806: 1, H0519: 1, S0328: 1, S0330: 1, S3014: 1, L0731: 1 and L0758: 1. | H0646: 1, L0764: 1, L0773: 1, L0768: 1, L0549: 1, L0381: 1, L0774: 1, L0375: 1, L0783: 1, S0052: 1, H0547: 1, H0658: 1, H0521: 1, H0555: 1, S0028: 1, L0751: 1, L0752: 1 and L0755: 1. | 223-260, 18-34 |
| 1144 | HHEEU21 | 887582 | 1154 | 49 - 1041 | 2559 | Glu-69 to Glu-74, Thr-78 to Arg-85, Lys-100 to Tyr-107, Pro-185 to Thr-194, Arg-249 to Ser-254, Thr-259 to Arg-269, His-289 to Ile-296, Thr-298 to Asp-303, Asn-312 to Ser-322. | AR096: 9, AR053: 7, AR089: 7, AR052: 6, AR060: 4, AR033: 4, AR039: 4, AR055: 3, AR104: 3, AR061: 2 H0422: 4, H0542: 3, H0591: 2, H0423: 2, H0125: 1, H0486: 1, H0634: 1 and H0436: 1. | | 221-251, 3-19, 49-65 |

1145	HKLSC61	887803	1155	407 - 757	2560	Lys-14 to Ser-20, Pro-34 to Ser-39, Ser-89 to Ser-95.	AR039: 26, AR052: 20, AR053: 16, AR033: 14, AR104: 13, AR060: 12, AR055: 12, AR096: 12, AR061: 12, AR089: 12 H0251: 1, H0235: 1 and S0050: 1.		39-77, 68-88
1146	HEOMP62	887943	1156	193 - 753	2561	Gln-13 to Lys-20, Lys-26 to Ala-34, Met-72 to Leu-78.	AR039: 38, AR053: 22, AR096: 20, AR104: 19, AR055: 19, AR033: 17, AR052: 15, AR089: 15, AR060: 11, AR061: 7 H0457: 4, L0794: 3, H0580: 2, S0344: 2, L0667: 2, L0809: 2, H0583: 1, S0116: 1, H0581: 1, H0421: 1, H0439: 1, H0179: 1, L0803: 1, L0804: 1, L0775: 1, L0659: 1, H0710: 1, S0190: 1 and L0747: 1.		36-69
1147	HLJEB18	888028	1157	328 - 1248	2562	Glu-14 to Ser-22, Thr-70 to Arg-76, Gln-90 to Gly-101, Asn-167 to Ser-172, Glu-179 to Ala-186, Val-193 to Gln-200, Leu-210 to Ser-217, Gln-239 to Gln-244, Glu-254 to Asn-266.	AR039: 61, AR104: 30, AR033: 27, AR053: 25, AR096: 23, AR089: 20, AR052: 20, AR055: 16, AR060: 15, AR061: 13 H0584: 26, H0265: 4, H0167: 3, S0114: 3, H0542: 3, H0556: 2, H0486: 2, T0042: 2, H0423: 2, H0575:		276-307, 104-120

(continued from previous entry): ...1, H0581: 1, H0375: 1, H0553: 1, H0376: 1, H0591: 1, H0040: 1, H0264: 1, L0774: 1, L0775: 1, S0328: 1, L0754: 1, L0749: 1, L0750: 1 and H0422: 1.

	Clone				SEQ ID NO:	Mutations	Clones	Residues
1148	HAMFN18	888042	1158	50 - 412	2563	Ser-31 to Gly-40.	AR096: 6, AR089: 6, AR052: 5, AR053: 5, AR033: 4, AR039: 4, AR055: 4, AR060: 3, AR104: 2, AR061: 2, H0497: 1, H0560: 1, S0028: 1 and H0667: 1.	50-68
1149	HWAEU20	888047	1159	416 - 1183	2564	Ile-74 to Ser-86, Thr-136 to Lys-144, Lys-250 to Glu-256.	AR096: 5, AR053: 4, AR039: 3, AR055: 2, AR060: 1, AR052: 3, AR089: 2, AR061: 1, AR104: 1, H0581: 1	99-126, 23-42, 1-18, 218-235, 157-173, 52-68
1150	HDPBG11	888121	1160	39 - 734	2565	Val-3 to Pro-8, Val-14 to Ile-19, Pro-23 to Gly-31, Ser-93 to Asp-100.	AR060: 6, AR039: 5, AR055: 5, AR089: 5, AR033: 4, AR053: 4, AR096: 4, AR061: 4, AR052: 2, AR104: 2, S0476: 41, H0271: 33, S0132: 14, H0521: 14, S0046: 13, H0623: 13, H0416: 7, H0634: 6, H0575: 5, H0522: 5, S0436: 5,	38-67

H0638: 4, H0250: 4, H0641: 4, S0053: 4, H0556: 3, H0437: 3, H0069: 3, H0179: 3, H0551: 3, H0056: 3, L0794: 3, S0052: 3, H0159: 2, H0657: 2, H0663: 2, S0278: 2, H0431: 2, H0457: 2, H0719: 2, L0483: 2, H0649: 2, L0771: 2, L0662: 2, H0689: 2, H0518: 2, L0581: 2, H0713: 1, T0049: 1, H0656: 1, S0298: 1, H0662: 1, S0418: 1, S0442: 1, S0358: 1, H0392: 1, H0442: 1, H0587: 1, H0486: 1, T0109: 1, H0190: 1, H0635: 1, H0042: 1, H0530: 1, H0544: 1, H0545: 1, H0150: 1, S0051: 1, S0316: 1, T0023: 1, H0379: 1, S0016: 1, H0560: 1, H0561: 1, H0509: 1, H0633: 1, S0344: 1, S0426: 1, L0763: 1, L3904: 1, L0761: 1, L0667: 1, L0767: 1, L0649: 1, L0388: 1, L0775: 1, L0806: 1, L0805: 1, L0656: 1, L0809: 1, L0790: 1, L0663: 1, L0665: 1, S0428: 1, S0216: 1, H0435: 1,

| 1151 | HHFJI87 | 888142 | 1161 | 204 - 953 | 2566 | H0666: 1, H0672: 1, S0378: 1, H0528: 1, S0044: 1, H0187: 1, S0032: 1, L0749: 1, L0750: 1, L0759: 1, S0434: 1, L0593: 1 and H0422: 1. AR055: 9, AR039: 5, AR053: 4, AR089: 4, AR060: 4, AR052: 4, AR061: 3, AR033: 3, AR104: 2, AR096: 2 L0666: 6, L0776: 4, H0039: 2, H0622: 2, L0633: 2, L0439: 2, S0354: 1, H0619: 1, H0357: 1, H0590: 1, S0010: 1, H0596: 1, L0644: 1, L0805: 1 and H0144: 1. | 136-162, 176-204, 76-95, 108-124, 2-18 |
| 1152 | HWLEQ41 | 888156 | 1162 | 93 - 950 | 2567 | AR089: 30, AR096: 29, AR104: 25, AR033: 22, AR052: 18, AR053: 14, AR060: 9, AR039: 6, AR055: 5, AR061: 4 S0354: 9, S0358: 3, H0494: 3, H0519: 2, H0521: 2, L0754: 2, H0170: 1, S0040: 1, S0114: 1, H0484: 1, H0483: 1, H0255: 1, S0376: 1, S0046: 1, H0619: | 158-177, 132-150, 73-91, 193-209, 228-244, 253-269 |

1153	HTOIB37	1163	773 - 1582	2568	Thr-155 to Cys-161, Arg-182 to Arg-194, Leu-209 to Lys-214.	1, H0549: 1, H0042: 1, S0474: 1, H0581: 1, H0052: 1, H0083: 1, L0773: 1, L0517: 1, L0383: 1, S0374: 1, S0152: 1, S3014: 1, L0751: 1, L0759: 1, H0543: 1 and H0422: 1. AR060: 57, AR055: 52, AR039: 40, AR104: 39, AR033: 37, AR053: 35, AR089: 30, AR061: 26, AR096: 12, AR052: 6 H0618: 4, H0254: 3, H0255: 3, L0748: 3, H0253: 2, H0617: 2, L0438: 2, L0361: 2, S0442: 1, S0360: 1, S0468: 1, H0370: 1, H0333: 1, H0581: 1, H0252: 1, H0032: 1, H0264: 1, H0413: 1, H0529: 1, L0768: 1, H0672: 1, L0777: 1 and H0542: 1.	76-92, 16-32, 101-117, 34-50, 137-153
1154	HTGBM16	1164	96 - 1118	2569	Ser-74 to Gln-82, Ser-170 to Asn-178, His-186 to Ala-199, Arg-209 to Leu-216.	AR089: 8, AR060: 8, AR096: 7, AR053: 5, AR104: 5, AR033: 5, AR061: 4, AR055: 3, AR039: 3, AR052: 0 L0748: 3, H0494: 2, H0547: 2, S0134: 1, S0278:	231-250, 2-19, 43-59, 100-116

1155	HOUGB95	888279	1165	73 - 795	2570	Glu-69 to Ser-74, Glu-80 to Asp-88, Phe-98 to Leu-104, Gln-140 to Ala-148, Glu-153 to Leu-158, Ala-175 to Ala-197, Met-210 to Leu-223, Glu-225 to Leu-241.

1, H0586: 1, H0575: 1, T0082: 1, H0031: 1, H0644: 1, H0090: 1, H0551: 1, H0144: 1, H0435: 1, L0439: 1, L0755: 1 and L0595: 1.

AR033: 3, AR089: 3,
AR061: 3, AR060: 2,
AR039: 2, AR096: 1,
AR052: 1, AR104: 1,
AR055: 1, AR053: 0
S0436: 7, H0551: 6,
H0599: 5, L0756: 5, L0758:
5, L0759: 5, L0754: 4,
L0747: 4, H0545: 3, S0003:
3, L0375: 3, H0144: 3,
L0755: 3, S0442: 2, S0045:
2, H0013: 2, L0471: 2,
H0373: 2, H0051: 2, H0560:
2, S0422: 2, L0768: 2,
L0803: 2, L0659: 2, L0438:
2, L0439: 2, L0740: 2,
L0750: 2, L0779: 2, L0757:
2, S0242: 2, H0739: 1,
H0624: 1, S0040: 1, S0342:
1, S0116: 1, S0212: 1,
S0444: 1, H0357: 1, H0587:
1, L0021: 1, S0010: 1,
L0105: 1, S0474: 1, H0544:
1, H0046: 1, S0051: 1,
H0266: 1, H0622: 1, H0032:

43-70, 4-29, 107-124

1156	HTELC21	888321	1166	88 - 453	2571	1, H0388: 1, H0598: 1, H0413: 1, S0438: 1, H0641: 1, S0002: 1, L0662: 1, L0805: 1, L0809: 1, L0519: 1, L5623: 1, L0663: 1, L0664: 1, H0520: 1, S0126: 1, L0753: 1, S0434: 1, L0599: 1, S0011: 1 and H0667: 1.					12-37, 50-77, 85-101, 40-56
1157	HTPGV36	888376	1167	2639 - 306	2572	AR053: 16, AR039: 15, AR033: 13, AR055: 13, AR052: 10, AR089: 10, AR061: 9, AR096: 7, AR060: 7, AR104: 4 H0253: 8, H0038: 4, H0616: 3, H0618: 2, L0758: 2, L0794: 1 and L0779: 1.	Pro-51 to Ala-59.	Xp11.23	AR104: 19, AR033: 18, AR089: 12, AR055: 9, AR060: 6, AR061: 6, AR096: 6, AR052: 5, AR053: 5, AR039: 4 H0695: 78, L0747: 13, H0013: 12, L0665: 11, L0662: 10, H0547: 10, L0592: 10, S0360: 8, H0545: 8, L0659: 8, L0666: 8, H0580: 7, S0010: 7, H0519: 7, L0748: 6, L0595:	300047, 300071, 300110, 300600, 301000, 301000, 301830, 309470, 309500, 309610, 309850, 311050,	555-575, 536-552, 760-776

312060

6, S0418: 5, H0135: 5, L0565: 5, L0759: 5, S0212: 4, S0356: 4, H0012: 4, L0766: 4, L0655: 4, H0144: 4, H0520: 4, S0404: 4, L0750: 4, L0590: 4, L0599: 4, H0543: 4, S6024: 3, H0661: 3, S0420: 3, L0471: 3, T0010: 3, L0564: 3, L0369: 3, L0770: 3, L0769: 3, L0663: 3, S0378: 3, L0596: 3, S0358: 2, S0046: 2, L0717: 2, H0123: 2, H0620: 2, L0163: 2, H0266: 2, S0250: 2, H0553: 2, H0383: 2, H0616: 2, H0551: 2, T0041: 2, S0210: 2, L0521: 2, L0768: 2, L0649: 2, L0378: 2, L0806: 2, L0654: 2, L0776: 2, L0657: 2, L0783: 2, S0126: 2, H0689: 2, H0435: 2, S0380: 2, S0028: 2, L0749: 2, L0756: 2, L0752: 2, L0757: 2, L0588: 2, L0589: 2, L0601: 2, L0603: 2, H0352: 2, H0170: 1, H0717: 1, H0295: 1, H0294: 1, H0664: 1, S0354: 1, H0675: 1, S0007: 1, S0045: 1, S0476:

1, H0351: 1, S0278: 1,
H0370: 1, H0438: 1, H0333:
1, L0021: 1, H0042: 1,
T0082: 1, H0706: 1, L0109:
1, S0049: 1, L0040: 1,
H0546: 1, H0569: 1, H0014:
1, H0015: 1, S0051: 1,
H0083: 1, H0428: 1, H0622:
1, L0483: 1, H0604: 1,
H0213: 1, H0644: 1, H0169:
1, L0455: 1, L0456: 1,
H0316: 1, S0036: 1, H0087:
1, H0264: 1, S0038: 1,
H0100: 1, L0351: 1, T0042:
1, H0494: 1, H0652: 1,
H0538: 1, L0763: 1, L0371:
1, L0796: 1, L0637: 1,
L5566: 1, L0641: 1, L0363:
1, L0794: 1, L0651: 1,
L0784: 1, L0632: 1, L0805:
1, L0628: 1, L0527: 1,
L0540: 1, L0518: 1, L0809:
1, L0647: 1, L0367: 1,
L0791: 1, L0792: 1, L0532:
1, L5286: 1, H0682: 1,
H0672: 1, S0330: 1, H0539:
1, S0152: 1, H0696: 1,
S0044: 1, H0555: 1, H0626:
1, L0611: 1, H0540: 1,
S0037: 1, S3014: 1, S0027:

| 1158 | HFTDC58 | 888528 | 1168 | 296 - 604 | 2573 | 1, S0032: 1, L0754: 1, L0779: 1, L0780: 1, L0731: 1, L0758: 1, S0031: 1, L0581: 1, L0593: 1, L0366: 1, H0668: 1, H0665: 1, H0667: 1, S0192: 1, S0194: 1 and H0423: 1. | | 53-73 |
| 1159 | HMUAG30 | 888542 | 1169 | 1399 - 449 | 2574 | Pro-23 to Pro-36, Asp-54 to Asp-61, Gln-67 to Gly-76. | AR052: 2, AR033: 2, AR053: 2, AR096: 1, AR089: 1, AR060: 1, AR039: 0, AR061: 0, AR104: 0 H0599: 2, S0474: 2, H0266: 2, L0759: 2, H0556: 1, H0638: 1, S0418: 1, H0733: 1, S6022: 1, L0021: 1, S0010: 1, H0581: 1, H0123: 1, H0050: 1, H0024: 1, H0553: 1, H0644: 1, H0708: 1, L0763: 1, L0641: 1, L0766: 1, L0805: 1, L0655: 1, H0539: 1, S0028: 1, L0756: 1 and L0777: 1. AR033: 5, AR089: 5, AR061: 4, AR052: 4, AR060: 3, AR055: 2, AR053: 2, AR039: 2, AR104: 2, AR096: 1 H0592: 1, H0497: 1, | 253-282, 201-228, 124-146, 163-179, 231-247 |

No.	Clone								
1160	HCBME31	888903	1170	79 - 624	2575	Pro-51 to Ser-58.	H0553: 1, H0628: 1, H0488: 1, H0529: 1, S0310: 1, H0435: 1 and L0439: 1. AR096: 3, AR055: 2, AR089: 1, AR052: 1, AR053: 1, AR060: 1, AR061: 1, AR104: 1, AR033: 1, AR039: 1 S0002: 2, L0785: 1, H0661: 1, H0587: 1, H0635: 1, H0051: 1, S0003: 1, S0438: 1, S0344: 1, L0761: 1, L0649: 1, L0792: 1 and L0731: 1.			70-95, 29-45, 1-17
1161	HPMGA51	888905	1171	1129 - 644	2576	Pro-49 to His-57, Pro-64 to Asp-73, Thr-100 to Arg-106, Lys-145 to Glu-151.	AR055: 4, AR096: 3, AR060: 3, AR053: 3, AR104: 2, AR052: 2, AR033: 2, AR089: 2, AR061: 1, AR039: 0 H0031: 2, L0600: 2, H0713: 1, S0052: 1, H0539: 1, S0436: 1 and L0603: 1.			104-131
1162	HDQDC13	888998	1172	5 - 643	2577	Gln-15 to Gly-23.	AR053: 2, AR052: 1, AR033: 1, AR096: 1, AR089: 0, AR060: 0, AR061: 0, AR055: 0, AR104: 0, AR039: 0 L0766: 7, H0556: 6, L0662: 4, L0789: 4, L0438:	16p12-p11	108730, 147781, 172471, 186580, 266600, 600760, 600760,	173-189, 105-121

| | 600761, 600761, 602066 | 4, L0748: 4, L0749: 4, L0769: 3, L0776: 3, H0521: 3, S0360: 2, S0007: 2, L0717: 2, H0575: 2, S0036: 2, L0794: 2, L0666: 2, L0663: 2, H0520: 2, H0547: 2, H0555: 2, S0028: 2, L0754: 2, H0422: 2, H0265: 1, T0049: 1, H0657: 1, S0354: 1, H0676: 1, H0645: 1, H0411: 1, S0278: 1, H0370: 1, H0586: 1, H0486: 1, H0013: 1, H0098: 1, H0036: 1, H0052: 1, H0457: 1, H0572: 1, H0081: 1, L0471: 1, L0163: 1, H0039: 1, H0553: 1, L0455: 1, S0366: 1, H0135: 1, H0038: 1, H0551: 1, S0038: 1, H0494: 1, L0763: 1, L0800: 1, L0387: 1, L0803: 1, L0805: 1, L0518: 1, L0809: 1, S0374: 1, H0593: 1, H0660: 1, H0539: 1, H0696: 1, L0612: 1, S0032: 1, L0741: 1, L0742: 1, L0439: 1, L0740: 1, L0747: 1, L0750: 1, L0756: 1, L0777: 1, L0757: 1, L0592: 1, L0581: 1, H0668: 1, H0653: |

1163	HLHFX80	889324	1173	81 - 473	2578	Arg-16 to Ser-25, Phe-30 to Asp-38, Gln-97 to Lys-104, Ser-113 to His-119.	1, H0423: 1 and L0600: 1. AR039: 2, AR096: 2, AR060: 1, AR053: 1, AR089: 1, AR104: 1, AR033: 1, AR061: 0, AR055: 0, AR052: 0 H0556: 1, L0534: 1, H0431: 1, H0024: 1 and S0428: 1.	61-81
1164	HSLKC45	889371	1174	124 - 1245	2579	Ser-75 to Leu-81, Arg-101 to Ala-112, Gln-162 to Asn-172, Tyr-178 to Leu-197, Glu-204 to Arg-219, Arg-252 to Ile-269, Pro-271 to Asp-280, Glu-297 to Lys-303, Glu-313 to Asn-325, Ser-354 to Gly-365.	AR055: 7, AR033: 7, AR060: 5, AR052: 4, AR089: 4, AR061: 4, AR053: 4, AR096: 3, AR104: 2, AR039: 2 H0545: 2, L0659: 2, H0265: 1, H0556: 1, H0295: 1, S0418: 1, S0420: 1, S0358: 1, L0717: 1, H0635: 1, H0551: 1, T0067: 1, H0494: 1, L0662: 1, L0804: 1, L0809: 1, S0126: 1, H0658: 1, H0521: 1, S0390: 1, L0780: 1, L0731: 1, S0436: 1 and H0423: 1.	220-252, 2-26
1165	HOGBN93	889792	1175	503 - 3	2580	Gly-52 to Ser-57, Phe-81 to Arg-89, Lys-125 to Gly-137.	AR039: 42, AR052: 40, AR053: 25, AR033: 24, AR104: 22, AR089: 20, AR096: 17, AR060: 13, AR061: 13, AR055: 12	59-78, 31-51, 95-112, 7-23, 146-162

| 1166 | HTPHE46 | 889999 | 1176 | 96 - 653 | 2581 | Glu-13 to Gln-22, Pro-86 to Asp-91, Arg-98 to Gly-104, Gln-170 to Cys-183. | AR039: 19, AR060: 12, AR096: 10, AR104: 9, AR053: 9, AR055: 9, AR033: 8, AR052: 7, AR089: 7, AR061: 5 S0414: 9, S0422: 7, L0662: 7, S0444: 6, L0748: 4, L0754: 4, L0581: 4, S0442: 3, H0031: 3, L0666: 3, H0656: 2, S0358: 2, S0360: 2, H0013: 2, L0471: 2, S0438: 2, S0440: 2, L0598: 2, L0803: 2, L0540: 2, L0756: 2, L0752: 2, L0758: 2, L0759: 2, S0242: 2, H0624: 1, S0282: 1, H0393: 1, H0586: 1, H0574: 1, H0036: 1, H0004: 1, T0103: 1, T0110: 1, H0571: 1, H0569: 1, H0123: 1, H0594: 1, S6028: 1, H0622: 1, UNKWN: 1, L0649: 1, L0381: 1, L0776: 1, L0659: 1, L0528: 1, L0792: 1, L0793: 1, L0663: 1, L0664: 1, L0665: 1, H0144: 1, S0374: 1, H0547: 1, H0593: | H0521: 2, L0770: 1, L0766: 1, H0435: 1 and H0712: 1. | | | 34-58, 63-83 |

1167	HTXQU08	890638	1177	218 - 661	2582		59-78
					Pro-38 to Arg-44, Leu-88 to His-93, Asp-100 to Ser-106, Pro-119 to Cys-126.	AR055: 7, AR052: 5, AR053: 4, AR089: 4, AR060: 4, AR096: 3, AR061: 3, AR033: 3, AR039: 2, AR104: 1 H0271: 8, L0759: 4, L0779: 3, L0755: 3, H0222: 2, H0575: 2, H0705: 2, H0581: 2, L0803: 2, L0659: 2, L0790: 2, L0754: 2, L0749: 2, L0777: 2, H0556: 1, H0159: 1, T0049: 1, H0650: 1, S0045: 1, T0060: 1, H0046: 1, L0163: 1, S0051: 1, H0030: 1, H0553: 1, H0628: 1, H0038: 1, H0268: 1, H0059: 1, S0422: 1, H0529: 1, L0770: 1, L0667: 1, L0800: 1, L0641: 1, L0773: 1, L0662: 1, L0794: 1, L0766: 1, L0650: 1, L0375: 1, L0530: 1, L0791: 1, L0663: 1, S0216: 1	1, H0690: 1, H0670: 1, H0648: 1, H0672: 1, H0651: 1, H0539: 1, S0378: 1, S0380: 1, H0521: 1, S0406: 1, H0555: 1, H0478: 1, L0744: 1, L0731: 1 and S0276: 1.

1168	HE8MU78	890664	1178	126 - 1160	2583	Cys-21 to Asn-32, Leu-48 to Arg-53, Gln-154 to Leu-161, Pro-213 to Asp-220, Pro-257 to Glu-265, Lys-274 to Asn-281, Ala-326 to Pro-344.	1, S0380: 1, S0027: 1, L0748: 1, L0731: 1, L0757: 1, L0758: 1 and L0591: 1. AR096: 18, AR052: 15, AR089: 10, AR060: 9, AR053: 8, AR104: 5, AR033: 4, AR061: 4, AR055: 3, AR039: 2 T0006: 34, L0753: 8, H0013: 2, L0750: 2, T0082: 1, L0745: 1, L0779: 1 and L0759: 1.	281-316, 1-22
1169	HTNBJ17	890703	1179	498 - 824	2584	Gln-8 to Ser-13, Arg-21 to Ser-27, Glu-37 to Lys-42.	AR055: 5, AR096: 4, AR052: 4, AR053: 3, AR060: 3, AR061: 3, AR089: 3, AR033: 3, AR104: 2, AR039: 0 L0748: 12, L0747: 11, S0358: 10, L0766: 8, L0794: 6, L0740: 6, L0779: 6, H0556: 5, L0803: 5, L0749: 5, H0266: 4, L0743: 4, L0744: 4, L0758: 4, H0624: 3, H0265: 3, L0776: 3, S0404: 3, S3014: 3, L0752: 3, L0731: 3, L0599: 3, H0661: 2, L0005: 2, S0360: 2, H0580: 2, S0046: 2, H0645: 2, H0013: 2,	85-109

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1170	HTTJZ84	890714	1180	1309 - 311	2585			
					Leu-2 to Asn-7, Glu-129 to Gly-137, Glu-279 to Lys-284, Pro-318 to Leu-333.	L0659: 1, L0517: 1, L0647: 1, L0787: 1, L0666: 1, L0663: 1, S0428: 1, H0547: 1, H0519: 1, H0689: 1, H0435: 1, H0670: 1, H0539: 1, S0152: 1, L0777: 1, L0755: 1, L0757: 1, S0436: 1, S0276: 1 and H0543: 1.	AR055: 4, AR033: 3, AR061: 3, AR096: 3, AR052: 2, AR060: 2, AR089: 2, AR053: 1, AR104: 1, AR039: 0 S0474: 4, S0052: 4, H0265: 3, S0046: 3, S0344: 3, T0007: 2, S0132: 2, S0476: 2, H0253: 2, H0545: 2, H0551: 2, H0412: 2, L5623: 2, L0777: 2, L0757: 2, L0588: 2, S0446: 2, H0664: 1, H0489: 1, H0069: 1, H0635: 1, H0706: 1, H0618: 1, H0318: 1, H0581: 1, H0544: 1, H0023: 1, H0247: 1, H0271: 1, H0424: 1, H0628: 1, H0617: 1, H0634: 1, S0142: 1, S0210: 1, L0646: 1, L0773: 1, L0768: 1, L0804: 1, L0659: 1, L0666: 1, L0665: 1,	111-127, 205-221, 238-254

1171	HLYBD96	890826	1181	23 - 964	2586	Phe-30 to Cys-36.	S0428: 1, H0435: 1, S0330: 1, H0521: 1, H0576: 1, S0027: 1, L0731: 1 and H0667: 1. AR055: 429, AR060: 304, AR033: 260, AR061: 208, AR089: 197, AR052: 148, AR104: 145, AR096: 138, AR053: 92, AR039: 64 L0794: 2, H0581: 1, H0179: 1, S0036: 1, L0789: 1, L0777: 1 and H0445: 1.	207-239, 39-61, 156-182, 119-138, 84-101, 256-273, 63-79
1172	HDPPJ68	891362	1182	259 - 1230	2587	Gly-34 to Leu-39, His-41 to Pro-49, Gly-62 to Arg-67, Thr-80 to Gln-88, Met-181 to Glu-191, Leu-197 to Arg-206.	AR033: 4, AR060: 4, AR104: 2, AR061: 2, AR052: 1, AR089: 1, AR096: 0, AR053: 0, AR055: 0 L0761: 5, L0800: 4, L0794: 3, L0766: 3, L0803: 3, L0483: 2, H0264: 2, L0773: 2, L0789: 2, H0521: 2, L0748: 2, L0779: 2, L0758: 2, H0556: 1, S0114: 1, S0116: 1, S0282: 1, S0476: 1, H0497: 1, S6028: 1, H0288: 1, L0520: 1, L0764: 1, L0560: 1, L0552: 1, L0774: 1, L0523: 1, S0126: 1, H0522: 1, L0777:	293-321, 88-109, 125-150, 12-33, 229-245, 269-285, 158-174

| 1173 | HTTJT40 | 891742 | 1183 | 211-654 | 2588 | Phe-61 to His-66. | ...1, L0759: 1, S0031: 1 and L0480: 1. AR039: 47, AR053: 32, AR052: 30, AR055: 29, AR033: 27, AR104: 27, AR089: 26, AR096: 20, AR060: 18, AR061: 12 L0771: 3, L0766: 3, L0783: 3, L0748: 3, L0749: 3, L0757: 3, L0758: 3, L0595: 3, H0031: 2, H0673: 2, L0369: 2, L0769: 2, S0374: 2, L0438: 2, H0547: 2, H0658: 2, H0696: 2, L0439: 2, L0750: 2, L0777: 2, L0596: 2, L0592: 2, H0543: 2, H0265: 1, H0713: 1, S0116: 1, H0661: 1, H0176: 1, S0444: 1, S0045: 1, H0640: 1, H0013: 1, S0010: 1, H0318: 1, H0232: 1, H0546: 1, H0065: 1, H0566: 1, H0024: 1, H0083: 1, H0266: 1, T0006: 1, H0617: 1, L0055: 1, H0165: 1, L0456: 1, H0040: 1, H0634: 1, H0551: 1, T0067: 1, H0100: 1, T0041: 1, H0560: 1, S0438: 1, S0440: 1, H0641: 1, S0144: 1, | | 1-27, 97-118 |

| 1174 | HETDR50 | 891862 | 1184 | 650 - 120 | 2589 | Ser-16 to Arg-23, Ser-152 to Asn-161, Thr-165 to Thr-170. | L0762: 1, L0763: 1, L0772: 1, L0648: 1, L0363: 1, L0767: 1, L0768: 1, L0651: 1, L0776: 1, L0636: 1, L0809: 1, L0545: 1, L0647: 1, L0793: 1, L0664: 1, H0435: 1, H0648: 1, H0436: 1, S3014: 1, S0206: 1, L0742: 1, L0779: 1, L0752: 1, L0731: 1, S0260: 1, H0445: 1, S0434: 1, S0436: 1 and S0194: 1. AR055: 9, AR033: 9, AR060: 9, AR052: 7, AR104: 6, AR053: 6, AR061: 6, AR089: 6, AR096: 5, AR039: 3 H0090: 3, H0013: 2, H0046: 2, H0624: 1, H0170: 1, L0459: 1, S0222: 1, H0427: 1, S0010: 1, H0251: 1, H0596: 1, H0050: 1, H0014: 1, S0214: 1, H0412: 1, L0439: 1, L0759: 1 and S0436: 1. | 20p13 | 192340, 234200 | 43-74, 132-149, 24-41, 93-109 |
| 1175 | HSLFZ79 | 892016 | 1185 | 173 - 1513 | 2590 | Arg-171 to Thr-176, Met-216 to Asn-221, Glu-229 to Lys-235, Arg-348 to Trp-353, | AR089: 7, AR096: 7, AR060: 5, AR033: 4, AR039: 4, AR055: 4, AR061: 4, AR053: 4, | | | 1-26, 98-119, 54-75, 308-324, 145- |

1176	HDQGN46	892018	1186	265 - 1308	2591	Asp-53 to Tyr-61, Pro-105 to Ile-128, Arg-133 to Leu-140, Gln-182 to Ala-188,	AR053: 3, AR089: 1, AR033: 1, AR052: 1, AR096: 1, AR055: 1, AR060: 1, AR104: 1.	262-291, 4-27, 78-96
						Glu-372 to Thr-381, Lys-392 to Asp-398, Lys-435 to Glu-444.	AR104: 3, AR052: 2 L0748: 8, L0731: 8, L0747: 6, L0439: 4, L0779: 4, L0777: 4, H0341: 2, S0001: 2, S0386: 2, L0769: 2, L0771: 2, L0662: 2, L0803: 2, L0806: 2, L0776: 2, L0783: 2, L0666: 2, L0740: 2, L0758: 2, S0242: 2, S0040: 1, S0116: 1, H0497: 1, H0013: 1, H0599: 1, H0036: 1, H0620: 1, S0051: 1, T0010: 1, H0266: 1, H0316: 1, H0359: 1, S0438: 1, L0770: 1, L0761: 1, L0372: 1, L0764: 1, L0767: 1, L0794: 1, L0375: 1, L0652: 1, L0657: 1, L0659: 1, L0526: 1, L0789: 1, L0665: 1, H0547: 1, H0690: 1, H0648: 1, S0330: 1, S0380: 1, S0028: 1, L0749: 1, L0752: 1, L0759: 1, L0589: 1, L0608: 1, S0026: 1, S0196: 1 and S0446: 1.	161, 123-139

| 1177 | HDPRH64 | 892038 | 1187 | 820-155 | 2592 | Pro-205 to Asn-218, Gly-259 to Ala-264, Asn-290 to Ser-302, Glu-307 to Tyr-314, Tyr-317 to Lys-332. | AR061: 0, AR039: 0 H0521: 5, L0804: 2, H0634: 1, S0440: 1 and H0522: 1. | | | |
| | | | | | | Trp-98 to Arg-105, Trp-156 to Cys-162, Glu-184 to Met-205, Gln-207 to Val-216. | AR096: 3, AR060: 2, AR089: 2, AR033: 1, AR052: 1, AR061: 1, AR104: 0 L0740: 15, L0758: 6, H0539: 5, H0521: 4, L0744: 4, L0754: 4, S0434: 4, L0803: 3, L0774: 3, L0666: 3, L0748: 3, L0439: 3, L0752: 3, S0002: 2, S0426: 2, L0651: 2, L0659: 2, H0170: 1, S0354: 1, S0358: 1, S0360: 1, T0008: 1, T0060: 1, H0575: 1, H0618: 1, H0309: 1, H0457: 1, S0250: 1, H0553: 1, H0100: 1, H0494: 1, S0142: 1, L0369: 1, L0638: 1, L0761: 1, L0645: 1, L0771: 1, L0363: 1, L0767: 1, L0768: 1, L0775: 1, L0806: 1, L0776: 1, L0809: 1, L0663: 1, L0438: 1, H0689: 1, H0670: 1, S0390: 1, L0745: 1, L0746: 1, L0749: 1, | 14q11.2 | 182600, 186880, 190195, 190195, 222700, 600243, 602279, 602279 | 105-131, 48-70, 132-155, 165-181, 79-95, 1-17 |

1178	HPLAN49	892164	1188	70 - 1296	2593	Ser-52 to Arg-57, Gln-94 to Ser-99, Pro-191 to Gly-196, Thr-399 to Leu-406.	AR061: 4, AR052: 3, AR089: 2, AR060: 2, AR055: 2, AR096: 2, AR033: 1, AR053: 1, AR039: 1, AR104: 1 S0028: 6, S0260: 4, S0282: 3, S0031: 3, L0005: 2, L0476: 2, S0278: 2, H0592: 2, H0318: 2, H0617: 2, S0144: 2, S0428: 2, H0542: 2, H0624: 1, H0171: 1, S0134: 1, S0180: 1, S0354: 1, S0045: 1, S0005: 1, H0331: 1, S0049: 1, S0050: 1, H0416: 1, S0036: 1, H0164: 1, H0056: 1, S0150: 1, S0216: 1, S0044: 1, S0146: 1 and S0194: 1. L0593: 1, H0136: 1, S0196: 1, H0423: 1 and S0456: 1.			284-312, 1-22, 373-398, 65-84, 316-332, 354-370, 26-42
1179	HDPVB49	892654	1189	353 - 1336	2594	Val-14 to Lys-20, Gly-24 to Gly-31, Ala-33 to Val-40, Glu-140 to Phe-156, Ala-171 to Gln-184, Glu-300 to Lys-305.	AR055: 1, AR061: 1, AR060: 1, AR104: 1, AR033: 1, AR089: 1, AR052: 0, AR096: 0, AR053: 0, AR039: 0 H0521: 16, L0748: 13, L0655: 4, H0522: 4, H0575: 3, L0775: 3, L0754: 3, S0010: 2, H0644: 2, L0776:	11q13	102200, 106100, 131100, 131100, 131100, 133780, 147050, 153700, 161015,	271-297, 114-138, 184-205, 224-244, 49-65, 88-104

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| 1180 | HPJCP79 | 892826 | 1190 | 18 - 944 | 2595 | Asp-25 to Gly-38, Leu-167 to Ser-172, Leu-277 to Ser-291. | AR052: 6, AR055: 5, AR060: 5, AR033: 4, AR053: 4, AR089: 4, AR096: 4, AR104: 3, AR061: 3, AR039: 2 L0752: 4, L0754: 2, L0755: 2, H0265: 1, H0556: 1, T0040: 1, H0052: 1, H0544: 1, T0023: 1, H0591: 1, S0038: 1, H0100: 1, L0662: 1, L0663: 1, S0126: 1, S0152: 1, H0521: 1, | | |

2, L0666: 2, L0758: 2, L0605: 2, H0255: 1, S0358: 1, H0406: 1, H0550: 1, S0222: 1, H0441: 1, H0438: 1, S0280: 1, H0036: 1, H0309: 1, L0157: 1, H0050: 1, H0014: 1, S0051: 1, T0010: 1, H0375: 1, H0328: 1, T0006: 1, L0143: 1, H0063: 1, S0112: 1, S0142: 1, S0344: 1, L0770: 1, L0646: 1, L0773: 1, L0794: 1, L0803: 1, L0774: 1, L0606: 1, L0659: 1, L0791: 1, H0658: 1, S0328: 1, S0380: 1, H0555: 1, L0439: 1, L0750: 1, L0756: 1, L0777: 1 and S0436: 1.

164009, 168461, 168461, 168461, 180721, 180840, 191181, 193235, 209901, 232600, 259700, 259770, 600045, 600319, 600528, 601884

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1181	HHEVK59	893348	1191	297 - 743	2596	Ser-76 to Thr-84, Ala-126 to Glu-132.		5p15.1-p14	108962, 123000	82-110, 132-148, 12-28

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AR039: 4, AR052: 4, AR053: 3, AR089: 3, AR033: 3, AR096: 3, AR055: 3, AR060: 3, AR061: 2, AR104: 2 L0439: 10, L0803: 7, L0777: 7, H0052: 6, L0766: 6, S0356: 4, L0794: 4, L0751: 4, L0747: 4, L0731: 4, H0013: 3, H0551: 3, L0770: 3, L0805: 3, L0776: 3, L0665: 3, L0744: 3, L0748: 3, L0740: 3, L0754: 3, L0759: 3, S0222: 2, H0586: 2, H0156: 2, H0599: 2, H0163: 2, H0616: 2, S0002: 2, H0529: 2, L0768: 2, L0789: 2, H0144: 2, L0438: 2, H0682: 2, H0672: 2, L0749: 2, L0750: 2, L0755: 2, S0436: 2, L0591: 2, L0599: 2, H0170: 1, H0171: 1, H0556: 1, H0685: 1, H0583: 1, H0657: 1, S0212: 1, S0408: 1, S0007: 1, L0717: 1, H0549: 1, H0370: 1, H0575: 1, S0010: 1, H0546: 1, H0545: 1, H0009: 1, H0050: 1, H0620:

1182	HMKAK61	893374	1192	121 - 1197	2597					218-235
						Gly-26 to Asp-32, Phe-53 to Leu-58, Asn-63 to Arg-86, Ser-91 to Gln-99, Gly-133 to Asn-139, Glu-144 to Arg-151, Asp-242 to His-250, Pro-319 to Asp-326, Asn-352 to Lys-358.	1, H0201: 1, S0051: 1, H0083: 1, S6028: 1, H0286: 1, H0622: 1, S0364: 1, H0135: 1, H0412: 1, H0494: 1, S0142: 1, S0210: 1, S0422: 1, L0796: 1, L3904: 1, L0646: 1, L0800: 1, L0764: 1, L0767: 1, L0804: 1, L0806: 1, L0655: 1, L0657: 1, L0659: 1, L5623: 1, L0787: 1, L0666: 1, S0052: 1, H0519: 1, H0365: 1, H0435: 1, H0659: 1, S0380: 1, S0037: 1, S0027: 1, S0028: 1, S0032: 1, H0445: 1, L0592: 1, S0011: 1, S0194: 1, H0543: 1 and H0423: 1.	AR089: 36, AR039: 31, AR053: 25, AR033: 22, AR096: 20, AR052: 19, AR104: 17, AR060: 16, AR055: 14, AR061: 10 S0358: 11, S0406: 9, S0442: 6, S0440: 3, L0740: 3, S0408: 2, S0046: 2, H0421: 2, H0597: 2, S0210: 2, L0518: 2, S0374: 2, S0328: 2, S0027: 2, L0755: 2, H0445: 2, S0436: 2,		

1183	HWADM6 5	893492	1193	145 - 738	2598				41-75

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| 1184 | HLQFF81 | 893535 | 1194 | 168 - 530 | 2599 | Gly-103 to Ser-114. | AR055: 10, AR052: 6,
AR053: 6, AR060: 5,
AR089: 5, AR033: 5,
AR061: 4, AR096: 4,
AR039: 4, AR104: 4
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L0758: 5, L0803: 4, L0794:
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L0776: 2, L0517: 2, L0748:
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L0731: 2, L0508: 2, L0594:
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H0657: 1, H0656: 1, S0442:
1, H0369: 1, H0261: 1,
S0222: 1, H0574: 1, H0632:
1, T0040: 1, L0021: 1,
H0575: 1, S0010: 1, H0318:
1, H0046: 1, L0126: 1,
S0051: 1, S6028: 1, L0142:
1, H0628: 1, H0090: 1,
H0038: 1, H0269: 1, H0100:
1, S0438: 1, H0633: 1,
L0369: 1, L0637: 1, L3905:
1, L0761: 1, L0768: 1,
L0649: 1, L0804: 1, L0652:
1, L0653: 1, L0659: 1,
L0809: 1, L0788: 1, L0789:
L0794: 1, L0766: 1, L0804:
1, L0806: 1, L0758: 1 and
H0136: 1. | 66-86, 21-37 |

| 1185 | HDPIG80 | 893789 | 1195 | 207 - 791 | 2600 | Pro-101 to Gly-109. | AR039: 12, AR104: 12, AR033: 10, AR089: 9, AR096: 8, AR055: 7, AR060: 7, AR052: 7, AR053: 7, AR061: 5 L0789: 5, L0758: 4, S0356: 3, L0663: 3, H0539: 3, S0418: 2, H0424: 2, H0494: 2, S0440: 2, L0806: 2, L0664: 2, H0648: 2, S0028: 2, L0751: 2, L0749: 2, L0595: 2, T0002: 1, H0685: 1, H0295: 1, H0294: 1, S0001: 1, S0348: 1, S0360: 1, S0046: 1, S0132: 1, H0592: 1, H0587: 1, H0492: 1, L0622: 1, H0156: 1, H0575: 1, H0618: 1, H0581: 1, H0309: 1, H0050: 1, L0471: 1, H0620: 1, H0024: 1, S0051: 1, H0594: 1, H0266: 1, H0292: 1, H0284: 1, T0006: 1, H0628: 1, H0040: 1, H0268: 1, H0056: 1, H0561: 1, H0509: 1, L0438: 1, H0547: 1, H0539: 1, S0152: 1, H0521: 1, L0750: 1, L0756: 1, L0779: 1, H0445: 1 and L0485: 1. | 146-169, 52-70, 171-187, 24-40, 114-130 |

1186	HOEL W53	893798	1196	1829 - 1284	2601		
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| 1187 | HUSID53 | 893863 | 1197 | 50 - 394 | 2602 | Lys-9 to Arg-16, Gly-37 to Asn-45. | AR096: 3, AR052: 2, AR060: 2, AR104: 1, AR089: 1, AR033: 1, AR053: 1, AR061: 1, AR055: 1, AR039: 0 H0522: 2, H0052: 1, H0412: 1, L0794: 1, L0803: 1, H0651: 1, H0521: 1, L0748: 1, L0749: 1 and L0752: 1. | 51-68 |
| 1188 | HDPFZ30 | 894151 | 1198 | 110 - 880 | 2603 | | AR039: 7, AR033: 6, AR089: 5, AR053: 5, AR055: 4, AR096: 4, AR104: 4, AR052: 4, AR060: 3, AR061: 3 H0250: 5, H0580: 2, L0770: 2, L0438: 2, L0439: 2, L0754: 2, S0114: 1, H0459: 1, H0489: 1, S0278: 1, H0069: 1, H0318: 1, H0123: 1, L0471: 1, H0071: 1, H0328: 1, H0634: 1, T0067: 1, L0351: 1, H0560: 1, S0142: 1, S0344: 1, S0426: 1, L0763: 1, L0769: 1, L0761: 1, L0662: 1, L0363: 1, L0364: 1, L0794: 1, L0805: 1, L0789: 1, L0666: 1, L0664: 1, S0126: 1, H0658: 1, H0670: 1, | 193-212, 23-43, 48-74, 83-101, 103-119, 164-180 |

1189	HE8CW35	894153	1199	22 - 555	2604	Met-1 to Lys-19, Lys-29 to Gly-58, Ala-60 to Gly-88, Ala-90 to Asp-97.	H0521: 1, H0522: 1, S0044: 1, H0555: 1, H0576: 1, L0748: 1 and L0755: 1. AR033: 21, AR089: 6, AR060: 5, AR061: 2, AR104: 1, AR055: 1, AR096: 0, AR039: 0 H0013: 2, S0051: 2, H0333: 1, H0156: 1, S0049: 1, H0424: 1, L0455: 1, L0768: 1, L0517: 1, L0783: 1, L0809: 1 and L0666: 1.	144-166
1190	HE9SE46	894178	1200	332 - 1066	2605	Ala-29 to Asp-35, Pro-81 to Cys-89, Leu-108 to Gly-119, Glu-125 to Ala-138, Ser-140 to Asn-146, Asp-163 to Glu-174, Ser-180 to Gly-187, Lys-224 to Arg-229, Ile-231 to Tyr-238.	AR033: 2, AR061: 1, AR055: 1, AR089: 1, AR052: 1, AR060: 1, AR053: 1, AR104: 0, AR096: 0, AR039: 0 L0776: 21, L0777: 14, L0439: 12, L0752: 9, L0438: 8, L0591: 7, L0805: 5, L0771: 4, L0803: 4, L0774: 4, S0360: 3, H0013: 3, L0731: 3, L0415: 2, H0052: 2, H0024: 2, S0386: 2, L0663: 2, L0745: 2, L0756: 2, L0596: 2, L0608: 2, S0212: 1, S0222: 1, H0586: 1, H0156: 1, H0596: 1, H0050: 1, S0050: 1,	192-221

1191	HBHMH72	894186	1201	38 - 1711	2606	Ser-2 to Ala-10, Glu-12 to Leu-17, Gly-21 to Val-38.	AR096: 2, AR039: 1, AR033: 1, AR089: 0, AR061: 0, AR053: 0, AR104: 0, AR060: 0 L0749: 5, H0052: 3, H0688: 3, H0090: 3, L0744: 3, L0748: 3, L0439: 3, H0341: 2, L0005: 2, L0665: 2, H0593: 2, L0743: 2, L0751: 2, L0599: 2, T0002: 1, S6024: 1, H0722: 1, S0220: 1, T0040: 1, H0013: 1, H0318: 1, H0251: 1, T0110: 1, H0375: 1, H0266: 1, H0687: 1, L0142: 1, S0112: 1, S0144: 1, S0002: 1, H0529: 1, L0763: 1, L0772: 1, L0768: 1, L0766:	H0373: 1, S0051: 1, S6028: 1, H0188: 1, S0003: 1, H0031: 1, S0448: 1, S0306: 1, S0440: 1, L0369: 1, L0763: 1, L0773: 1, L0381: 1, L0775: 1, L0659: 1, H0144: 1, T0068: 1, H0547: 1, H0660: 1, S0330: 1, S0406: 1, L0754: 1, L0746: 1, L0750: 1, L0779: 1, L0755: 1, S0260: 1 and H0665: 1.	219-235, 513-529, 66-82, 190-206, 41-57

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1, L5564: 1, L0776: 1, S0310: 1, L0438: 1, S0152: 1, H0521: 1, H0187: 1, H0576: 1, S0027: 1, L0740: 1, L0750: 1, L0596: 1, L0591: 1 and L0592: 1.

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1193	HLWAH05	894289	1203	652 - 1503	2608	AR061: 2, AR053: 2, AR096: 2, AR060: 1, AR089: 1, AR052: 1, AR033: 1, AR104: 1, AR039: 1, AR055: 0 H0586: 5, L0751: 2, H0170: 1, H0662: 1, H0638: 1, H0575: 1, H0271: 1, H0553: 1, H0477: 1, H0641: 1, S0002: 1, H0529: 1, L0641: 1, L0803: 1, L0793: 1, H0547: 1, H0689: 1 and H0543: 1.	22q13.1	103050, 103050, 124030, 124030, 138981, 182380, 188826, 190040, 190040, 190040	148-164
1194	HUJCH47	894599	1204	687 - 1283	2609	AR052: 4, AR053: 3, AR033: 1, AR055: 1, AR060: 1, AR061: 0, AR096: 0, AR089: 0, AR039: 0, AR104: 0 H0650: 1, S0420: 1 and H0599: 1.			85-101
1195	HDPCI84	894601	1205	120 - 1091	2610	Leu-90 to Gln-96, Asp-109 to Thr-114, Ile-126 to Lys-133, Val-194 to Arg-207, Asp-219 to Asp-234, Glu-296 to Tyr-304. AR053: 3, AR060: 3, AR089: 2, AR052: 2, AR039: 2, AR055: 2, AR096: 1, AR033: 1, AR104: 1, AR061: 1 H0521: 4, L0803: 3, S0358: 2, H0489: 2, H0046: 2, S0440: 2, L0794: 2, L0666: 2, H0144: 2, S0126:			138-154

| 1196 | HCRPU72 | 894605 | 1206 | 77 - 799 | 2611 | Gly-25 to Thr-37, Asn-100 to Gly-107, Leu-147 to Asn-153, Ser-185 to Ser-192, Ser-207 to Lys-220. | 2, S0342: 1, H0663: 1, S0356: 1, S0408: 1, H0013: 1, L0021: 1, H0705: 1, H0150: 1, H0266: 1, H0039: 1, H0622: 1, H0038: 1, H0551: 1, S0422: 1, L0598: 1, L0646: 1, L0766: 1, L0653: 1, L0656: 1, L0789: 1, L0532: 1, L0663: 1, H0658: 1, L0748: 1, L0777: 1, L0759: 1, S0434: 1, L0596: 1 and H0506: 1. | AR039: 27, AR033: 16, AR053: 15, AR089: 14, AR052: 13, AR096: 12, AR055: 10, AR104: 9, AR060: 8, AR061: 7 H0144: 6, H0013: 2 and S0356: 1. | 154-170 |
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1198	HBINP48	894737	1208	252 - 644	2613	AR033: 11, AR061: 11, AR089: 8, AR060: 6, AR104: 5, AR055: 4, AR096: 3, AR052: 3, AR053: 2, AR039: 1 L0751: 7, L0769: 6, L0750: 5, L0752: 5, H0052: 4, L0771: 4, L0775: 4, L0758: 4, H0556: 3, L0665: 3, H0486: 2, S0010: 2, H0620: 2, T0006: 2, H0181: 2, H0494: 2, L0774: 2, L0375: 2, L0776: 2, L0512: 2, L0659: 2, H0555: 2, S0206: 2, L0740: 2, L0747: 2, L0596: 2, L0588: 2, S0276: 2, H0624: 1, S0402: 1, T0049: 1, H0341: 1, H0662: 1, S0358: 1, S0376: 1, S0360: 1, S0045: 1, S0476: 1, L0717: 1, H0351: 1, S0222: 1, H0455: 1, T0114: 1, L0021: 1, H0618: 1, T0048: 1, H0318: 1, L0109: 1, H0309: 1, H0544: 1, H0546: 1, H0545: 1, H0009: 1, H0123: 1, L0471: 1, H0424: 1, H0031: 1,	L0757: 1, S0436: 1 and S0194: 1.	55-73, 6-22, 82-98, 24-40

1199	HCQDE22	894831	1209	326 - 841	2614	Ile-128 to Gly-134, Phe-145 to Thr-150.	H0628: 1, H0617: 1, H0063: 1, H0059: 1, H0100: 1, H0625: 1, H0633: 1, H0646: 1, H0517: 1, L0770: 1, L0764: 1, L0766: 1, L0655: 1, L0657: 1, L0559: 1, L0526: 1, L0783: 1, L0809: 1, L0544: 1, L0529: 1, L0664: 1, S0428: 1, H0520: 1, H0593: 1, S0126: 1, H0682: 1, H0659: 1, H0670: 1, H0648: 1, L0611: 1, S0432: 1, L0756: 1, L0757: 1, S0436: 1 and S0194: 1.	AR055: 10, AR060: 6, AR052: 6, AR033: 5, AR061: 4, AR053: 4, AR096: 3, AR089: 3, AR104: 2, AR039: 1 H0596: 1 and L0749: 1.	25-53, 88-104, 8-24, 52-68
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1203	HLWBY26	895166	1213	61 - 1158	2618	Pro-21 to Pro-39.		292-323
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1204	HKAHR43	895539	1214	105 - 2606	2619	Cys-132 to Gly-138, Asn-176 to Met-183, Leu-217 to Val-222, Gln-349 to Thr-354, Glu-406 to Tyr-414, Gln-416 to Tyr-424, Arg-457 to Lys-466, Gln-545 to Glu-552, Gln-576 to Gln-586, His-669 to Val-674, Lys-801 to Thr-821.	1 and H0665: 1. AR096: 9, AR061: 7, AR052: 6, AR053: 5, AR089: 5, AR039: 4, AR033: 3, AR104: 3, AR060: 3, AR055: 3 L0771: 6, H0494: 4, S0358: 3, L0803: 3, L0518: 2, L0666: 2, S0354: 1, H0239: 1, H0553: 1, H0181: 1, H0617: 1, H0488: 1, L0648: 1, L0662: 1, L0774: 1, L0659: 1, L0665: 1, H0658: 1, H0648: 1, S0152: 1, S0404: 1 and S0434: 1.	145-176, 422-454, 471-506, 101-131, 779-801, 2-23, 246-262
1205	HLDCE43	895550	1215	145 - 627	2620		AR033: 28, AR053: 27, AR089: 23, AR052: 20, AR039: 20, AR055: 14, AR060: 13, AR061: 12, AR096: 10, AR104: 8 L0751: 7, L0789: 5, L0758: 4, S0356: 3, L0663: 3, H0539: 3, S0418: 2, H0545: 2, H0594: 2, H0424: 2, H0494: 2, S0440: 2, L0806: 2, L0664: 2, H0648: 2, S0380: 2, S0028: 2, L0754: 2, L0749: 2, L0777: 2, L0595: 2, H0556: 1,	98-115, 132-149, 18-34

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1206	HFXKW18	895626	1216	528 - 2336	2621	Ala-39 to Arg-46, Lys-76 to Ile-81, Asn-143 to Trp-149, Asp-154 to Lys-173.	AR061: 3, AR096: 2, AR052: 1, AR089: 1, AR053: 1, AR060: 1, AR039: 1, AR055: 1, AR104: 0, AR033: 0 H0250: 3, S0031: 3, H0271: 2, S0260: 2, S0001: 1, S0282: 1, H0617: 1, L0367: 1, S0053: 1, S0390: 1, L0698: 1 and H0352: 1.		6-35, 281-309, 393-410, 573-589, 84-100, 432-448, 542-558
1207	HSKCP67	895644	1217	299 - 814	2622	Pro-4 to Gln-10, Pro-22 to Arg-28, Glu-63 to Arg-86.	AR055: 8, AR052: 6, AR060: 5, AR033: 4, AR061: 4, AR089: 3, AR096: 3, AR053: 3, AR039: 2, AR104: 2 H0333: 2, L0758: 2, H0619: 1, H0618: 1, H0505: 1, S0051: 1, H0271: 1, S0142: 1, S0027: 1 and L0742: 1.		138-163, 95-118
1208	HBGOJ26	895700	1218	652 - 332	2623	Met-1 to Arg-6.	AR055: 11, AR033: 7, AR052: 6, AR089: 6, AR061: 5, AR096: 4, AR053: 4, AR104: 2, AR039: 2 H0618: 11, L0743: 8, L0748: 6, L0754: 6, L0731: 6, H0545: 5, H0052: 4, H0546: 4, L0648: 4, L0662:		83-107, 53-69

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1209	HWHGQ4 6	895880	1219	514 - 1251	2624	Thr-60 to Ala-65, Leu-94 to Glu-99, Cys-182 to Trp-188.	AR053: 3, AR052: 3, AR061: 2, AR089: 2, AR055: 2, AR033: 2, AR096: 1, AR060: 1, AR104: 1 L0748: 14, L0740: 9, L0755: 9, L0771: 7, L0779: 6, L0662: 5, H0586: 4, L0666: 4, L0439: 4, S0436: 4, H0624: 3, H0615: 3, L0770: 3, L0659: 3, L0809: 3, H0547: 3, S0152: 3, H0521: 3, L0747: 3, H0171: 2, S0045: 2, H0635: 2, H0575: 2, H0546: 2, H0169: 2, H0494: 2, L0763: 2, L0769: 2, L0650: 2, L0653: 2, L0517: 2, H0520: 2, H0593: 2, H0435: 2, L0749: 1, L0644: 1, L0375: 1, L0378: 1, L0776: 1, L0493: 1, L0656: 1, L0788: 1, L0666: 1, H0593: 1, H0660: 1, S0332: 1, S0406: 1, H0555: 1, L0610: 1, S3014: 1, L0744: 1, L0751: 1, L0756: 1, L0779: 1, L0752: 1, L0757: 1, S0434: 1, L0588: 1, L0603: 1 and S0456: 1.	27-61, 1-27, 159-181, 117-142, 68-87, 189-205

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1211	HVVAL93	895960	1221	662 - 1435	2626			108-138
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1212	HAMGN09	895968	1222	226 - 1077	2627			150-167
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| 1213 | HHEDS40 | 896083 | 1223 | 161 - 1567 | 2628 | Glu-19 to Lys-30, Ser-130 to Lys-136, Asp-156 to Cys-164, Asn-166 to Lys-172, Glu-233 to Ser-243, Leu-311 to Glu-322, Asp-331 to Thr-352, Thr-363 to Ala-376, Pro-385 to Pro-390. | AR096: 3, AR089: 3, AR053: 3, AR060: 2, AR033: 2, AR039: 1, AR104: 1, AR055: 1, AR061: 1, AR052: 1 L0766: 8, L0769: 4, L0794: 4, L0803: 4, L0748: 3, L0749: 3, H0266: 2, L0764: 2, H0144: 2, L0777: 2, L0731: 2, H0445: 2, L0596: 2, H0543: 2, H0556: 1, S0116: 1, H0638: 1, H0580: 1, S0045: 1, T0039: 1, S6028: 1, H0267: 1, H0622: 1, L0483: 1, S0036: 1, H0135: 1, H0561: 1, L0761: 1, L0806: 1, L0805: 1, L0657: 1, L0666: 1, S0053: 1, S0330: 1, H0539: 1, S3014: 1, L0779: 1, L0757: 1, L0593: 1, H0542: 1 and S0424: 1. | 431-449, 94-110 |
| 1214 | HBMBF28 | 896325 | 1224 | 185 - 1021 | 2629 | Leu-6 to Glu-11, Thr-13 to Pro-20, Glu-86 to Ala-92, Gln-95 to Leu-104, Glu-110 to Lys-116, Gln-173 to Phe-178, Gln-242 to Glu-261, Arg-267 to Tyr-279. | AR055: 406, AR060: 202, AR033: 149, AR039: 134, AR089: 128, AR061: 101, AR096: 99, AR104: 79, AR053: 73, AR052: 0 H0521: 9, L0508: 4, S0410: 3, S0474: 3, H0413: 3, L0766: 3, L0608: 3, | 66-85, 26-42, 212-228 |

1215	HJPAZ12	896370	1225	242 - 1048	2630		
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1216	HISCV39	896442	1226	2720 - 723	2631	AR096: 5, AR089: 3, AR033: 3, AR053: 2, AR060: 2, AR039: 2, AR104: 2, AR055: 2, AR052: 2, AR061: 1 L0748: 8, H0556: 6, L0439: 6, L0766: 5, L0438: 5, L0759: 5, L0662: 4, S0046: 3, S0010: 3, H0024: 3, H0135: 3, L0663: 3, H0547: 3, S0126: 3, H0651: 3, L0751: 3, L0731: 3, S0011: 3, H0543: 3, H0650: 2, S0418: 2, S0442: 2, S0358: 2, H0261: 2, H0549: 2, H0586: 2, H0642: 2, H0052: 2, H0327: 2, H0620: 2, T0010: 2, H0687: 2, H0644: 2, L0456: 2, H0063: 2, L0598: 2, L0772: 2, L0657: 2, L0809: 2, S0052: 2, H0660: 2, H0539: 2, H0436: 2, L0754: 2, L0746: 2, L0777: 2, L0752: 2, L0753: 2, L0603: 2, H0624:	16	611-637, 25-44, 126-142
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H0634: 1, H0059: 1, H0100:
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1217	HPTVU91	896517	1227	864 - 145	2632		
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1218	HSLJD02	896743	1228	850 - 53	2633	Leu-32 to Gln-37, Phe-141 to Gly-146, Gln-261 to Ala-266.	1 and L0747: 1. AR039: 1, AR096: 1, AR055: 1, AR033: 1, AR061: 1, AR060: 0, AR053: 0, AR052: 0, AR104: 0, S0390: 1	235-260, 9-32, 146-168, 77-96, 175-193, 116-133, 206-222
1219	HNHOF94	896802	1229	769 - 284	2634	Pro-87 to Ser-95.	AR096: 16, AR052: 15, AR089: 13, AR033: 8, AR060: 8, AR053: 8, AR104: 5, AR055: 5, AR061: 5, AR039: 5, S0216: 1	110-126, 50-66
1220	H2CBM85	896826	1230	393 - 860	2635	Ala-85 to Val-92.	AR052: 64, AR096: 42, AR053: 40, AR089: 29, AR060: 23, AR039: 23, AR033: 17, AR104: 13, AR055: 12, AR061: 11, S0028: 19, S0031: 9, S0052: 8, S0050: 7, L0105: 5, S0282: 4, H0381: 3, S0045: 3, S0278: 3, H0271: 3, H0617: 3, S0428: 3, S0001: 2, S0049: 2, H0196: 2, H0179: 2, S0038: 2, S0144: 2, S0044: 2, S0390: 2, S0206: 2, S0260: 2, L0591: 2, L0362: 2, L0361:	64-81

1221	HSLJC45	896843	1231	158 - 760	2636	Thr-3 to Gly-43, Thr-55 to Gln-61, Pro-71 to Ala-77, Pro-112 to Val-121, Thr-183 to His-188, Trp-195 to Thr-201.	2, L0603: 2, S0035: 1, S0046: 1, H0333: 1, H0253: 1, H0318: 1, T0110: 1, H0046: 1, H0266: 1, H0416: 1, H0031: 1, H0180: 1, H0181: 1, H0383: 1, H0169: 1, S0036: 1, H0135: 1, H0163: 1, H0634: 1, H0164: 1, L0374: 1, L0379: 1, S0126: 1, H0658: 1, S0152: 1, S0037: 1 and S3014: 1.	AR096: 37, AR060: 15, AR055: 12, AR089: 11, AR039: 11, AR033: 9, AR052: 6, AR061: 5, AR053: 5, AR104: 5 L0438: 3, H0018: 1, H0522: 1, S0390: 1 and L0439: 1.	3p24.2	154705, 227646, 601154	147-164
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H0031: 2, H0163: 2, L0648:
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L0666: 2, L0665: 2, H0690:
2, S0406: 2, L0777: 2,
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1, H0689: 1, H0690: 1,
H0539: 1, S0037: 1 and
L0759: 1. | 40-61, 2-18 |

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2, H0574: 2, H0599: 2,
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2, S6028: 2, S0214: 2,
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H0522: 2, L0751: 2, L0747:
2, L0749: 2, L0758: 2,
L0759: 2, L0593: 2, H0543:
2, H0265: 1, H0556: 1,
H0657: 1, H0341: 1, S0110:
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H0483: 1, H0255: 1, H0663:
1, S0007: 1, L0717: 1,
H0261: 1, H0370: 1, H0586:
1, H0587: 1, H0559: 1,
L0021: 1, H0575: 1, H0253:
1, H0545: 1, H0123: 1,
H0012: 1, H0024: 1, H0083:
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H0135: 1, H0488: 1, H0412:
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S0150: 1, H0641: 1, H0652:
1, H0538: 1, L0667: 1,
L0764: 1, L0766: 1, L0653:
1, H0519: 1, S0126: 1,
H0435: 1, H0518: 1, S0190:
1, H0555: 1, S3012: 1,
S0037: 1, L0744: 1, L0756:
1, L0779: 1, L0757: 1,
L0592: 1 and H0668: 1.

AR089: 5, AR039: 3,
AR096: 3, AR060: 3,

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H0717: 1, S0114: 1, H0650:
1, H0484: 1, H0662: 1,
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1, H0024: 1, L0171: 1,
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1242	HDPLG70	898235	1252	918 - 199	2657	Pro-51 to Asp-56, Gly-95 to Thr-105, Val-132 to Ala-138,	AR039: 106, AR053: 103, AR096: 100, AR052: 69, AR055: 34, AR089: 22,	196-228, 11-42

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1269	HMSCY51	901561	1279	72 - 1448	2684	L0777: 5, S0436: 5, S0116: 3, L0805: 3, L0809: 3, H0696: 3, H0423: 3, S0282: 2, S0354: 2, H0083: 2, H0316: 2, L0763: 2, L0767: 2, L0776: 2, S0406: 2, L0779: 2, S0114: 1, H0657: 1, H0656: 1, S0358: 1, S0444: 1, S0360: 1, H0340: 1, S0046: 1, H0619: 1, H0455: 1, H0333: 1, H0574: 1, H0559: 1, T0109: 1, H0156: 1, L0021: 1, T0074: 1, H0318: 1, S0474: 1, S0049: 1, H0327: 1, H0530: 1, H0615: 1, H0553: 1, H0673: 1, H0708: 1, H0059: 1, L0065: 1, S0438: 1, H0207: 1, S0422: 1, L0520: 1, L0769: 1, L0761: 1, L0521: 1, L0774: 1, L0655: 1, L0659: 1, L0526: 1, L0793: 1, L0666: 1, L0664: 1, H0659: 1, H0518: 1, S0176: 1, H0478: 1, L0748: 1, L0750: 1, L0755: 1, L0731: 1, L0608: 1, L0362: 1, S0026: 1 and S0242: 1. AR053: 16, AR096: 16, AR060: 13, AR052: 13,	Lys-70 to Gly-76, Glu-121 to Leu-137,			297-315, 256-278,

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1270	901592	1280	721 - 245	2685		93-109, 113-129
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					AR039: 9, AR053: 6, AR055: 6, AR096: 6, AR033: 5, AR089: 4, AR052: 4, AR104: 4, AR060: 4, AR061: 3 H0040: 6, H0556: 4, L0646: 4, H0265: 3, H0253: 3, H0046: 3, L0794: 3, L0439: 3, S0436: 3, S0040: 2, H0618: 2, H0309: 2, H0622: 2, H0494: 2, L0764: 2, L0776: 2, L0809: 2,	

| 1271 | HTXPO61 | 901690 | 1281 | 83 - 853 | 2686 | L0751: 2, L0758: 2, H0542: 2, H0341: 1, S0356: 1, S0360: 1, H0550: 1, H0156: 1, H0581: 1, H0231: 1, H0572: 1, H0012: 1, H0057: 1, H0355: 1, H0039: 1, H0163: 1, H0090: 1, H0551: 1, S0038: 1, H0100: 1, H0646: 1, L0640: 1, L0371: 1, L0667: 1, L0648: 1, L5564: 1, L0803: 1, L0806: 1, L0659: 1, L0789: 1, L0665: 1, H0690: 1, H0435: 1, H0658: 1, H0660: 1, H0672: 1, S0330: 1, S0406: 1, L0750: 1, L0752: 1, L0731: 1, L0757: 1, S0434: 1, L0593: 1, H0422: 1, S0042: 1, S0424: 1 and H0008: 1. AR052: 4, AR055: 4, AR061: 4, AR033: 4, AR053: 3, AR060: 3, AR089: 3, AR096: 2, AR039: 1, AR104: 1 L0754: 25, H0556: 9, L0439: 5, L0745: 5, L0755: 5, L0764: 4, L0744: 4, H0046: 3, H0617: 3, L0794: 3, L0766: 3, L0666: 3, | 74-101, 47-72, 155-175, 16-32, 182-198 |

1272	HLWAM62	902115	1282	95 - 895	2687		52-82
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| 1273 | HFXLK46 | 902129 | 1283 | 175 - 846 | 2688 | Arg-23 to Ile-31, Ala-112 to Trp-119. | AR096: 2, AR055: 1, AR089: 1, AR060: 1, AR061: 1, AR033: 0, AR039: 0, AR052: 0, AR053: 0, AR104: 0 S0028: 6, S0260: 4, S0282: 3, L0005: 2, L0476: 2, S0278: 2, H0318: 2, S0144: 2, H0542: 2, H0624: 1, H0171: 1, S0134: 1, S0180: 1, S0354: 1, S0045: 1, S0049: 1, H0416: 1, H0617: 1, S0036: 1, H0164: 1, S0150: 1, S0428: 1, S0216: 1, S0044: 1, S0146: 1 and S0031: 1. | 41-69, 1-21, 62-79, 149-165, 82-98 |
| 1274 | HBMXK78 | 902144 | 1284 | 490 - 816 | 2689 | Lys-12 to Phe-17, Leu-67 to Trp-81. | AR096: 7, AR033: 7, AR089: 6, AR060: 5, AR053: 5, AR052: 5, AR055: 4, AR104: 3, AR061: 2, AR039: 1 L0754: 7, L0599: 4, L0805: 3, H0716: 2, S0046: 2, H0545: 2, H0615: 2, H0529: 2, L0794: 2, H0539: 2, H0478: 2, L0777: 2, L0752: 2, H0170: 1, S0116: 1, S0360: 1, S0408: 1, H0728: 1, H0351: 1, H0331: 1, H0156: 1, H0599: 1, | 79-98 |

| 1275 | HE8TR48 | 902236 | 1285 | 205 - 1476 | 2690 | Met-1 to Cys-6, Ala-41 to Tyr-49, Lys-76 to Lys-84, Ser-197 to Lys-208, Pro-213 to Thr-220, Gln-286 to Lys-294, Ala-375 to Arg-391, Leu-397 to Thr-423. | AR061: 2, AR060: 2, AR033: 1, AR089: 1, AR055: 1, AR096: 0, AR039: 0, AR052: 0, AR053: 0 L0803: 4, L0777: 4, L0157: 3, L0794: 3, L0766: 3, L0776: 3, L0758: 3, H0013: 2, H0251: 2, L0471: 2, H0051: 2, S0003: 2, S0036: 2, L0598: 2, L0805: 2, L0655: 2, L0789: 2, L0666: 2, H0521: 2, L0747: 2, L0756: 2, L0779: 2, L0759: 2, L0591: 2, L0362: 2, H0422: 2, S0218: 1, H0656: 1, H0661: 1, H0638: 1, S0418: 1, S0356: 1, S0354: 1, S6022: 1, H0600: 1, H0587: 1, H0574: 1, | H0575: 1, T0082: 1, H0581: 1, H0230: 1, H0196: 1, H0350: 1, S0051: 1, H0266: 1, H0553: 1, H0090: 1, H0647: 1, S0426: 1, L0643: 1, L0363: 1, L0766: 1, S0374: 1, S0126: 1, H0522: 1, S0390: 1, L0740: 1, L0756: 1, L0753: 1, L0755: 1 and S0026: 1. | 51-76, 302-326, 18-37, 331-353, 108-125, 147-167, 228-245, 125-141, 355-372, 268-284 |

1276	HMUAL57	902291	1286	181 - 957	2691	Gln-180 to His-187, Arg-191 to Lys-196.	S0010: 1, H0052: 1, H0596: 1, H0327: 1, H0178: 1, H0355: 1, H0266: 1, H0328: 1, H0268: 1, H0056: 1, H0623: 1, S0150: 1, S0142: 1, S0344: 1, UNKWN: 1, L0646: 1, L0764: 1, L0363: 1, L0767: 1, L0386: 1, L0774: 1, L0775: 1, L0659: 1, H0660: 1, H0648: 1, S0328: 1, S0152: 1, H0522: 1, S0392: 1, S0028: 1, L0751: 1, H0445: 1 and L0599: 1.	AR039: 34, AR052: 21, AR104: 20, AR096: 17, AR053: 17, AR033: 15, AR089: 15, AR060: 12, AR055: 10, AR061: 9 S0364: 1, H0529: 1, L0764: 1, L0806: 1, L0657: 1, L0809: 1, H0690: 1 and S0152: 1.		222-241, 122-147, 24-42, 66-85, 202-218, 149-165
1277	HWCAD85	902684	1287	250 - 1182	2692	Pro-6 to Gly-25, Lys-37 to Ala-55, Phe-107 to Phe-117, Ser-133 to Pro-139, Ile-149 to Cys-156, Gln-169 to Ile-176,		AR060: 8, AR096: 4, AR052: 4, AR053: 2, AR039: 2, AR033: 2, AR089: 2, AR061: 2, AR055: 1, AR104: 1 H0521: 4, L0599: 4,		223-239, 71-87, 269-285, 183-199

1278	HLWCJ37	902841	1288	295 - 954	2693			
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| 1279 | HUFDC04 | 903101 | 1289 | 120 - 668 | 2694 | Tyr-164 to Leu-169, Thr-175 to Lys-183. | AR089: 2, AR033: 2, AR096: 2, AR055: 2, AR104: 2, AR052: 1, AR061: 1, AR060: 1, AR053: 0, AR039: 0 L0748: 12, L0777: 5, L0769: 4, L0774: 4, L0740: 4, H0556: 3, H0619: 3, H0494: 3, S0126: 3, L0754: 3, H0052: 2, H0620: 2, H0024: 2, H0617: 2, L0770: 2, H0521: 2, S0206: 2, L0591: 2, H0667: 2, H0265: 1, H0713: 1, H0717: 1, H0295: 1, T0049: 1, H0341: 1, H0661: 1, S0420: 1, S0408: 1, S0410: 1, S0046: 1, S0278: 1, H0441: 1, T0039: 1, H0013: 1, H0156: 1, H0309: 1, H0544: 1, H0046: 1, H0099: 1, S0250: 1, H0087: 1, T0069: 1, | 1, H0580: 1, S0278: 1, H0586: 1, H0318: 1, H0251: 1, S0466: 1, S0438: 1, L0763: 1, L0803: 1, L0774: 1, L0657: 1, L0809: 1, L0790: 1, S0328: 1, H0521: 1, L0748: 1, L0749: 1, H0595: 1 and S0424: 1. | 135-160, 98-117, 38-59, 75-91 |

| 1280 | HHEXO15 | 903309 | 1290 | 137-547 | 2695 | Leu-29 to Thr-36, Phe-85 to Asn-96. | S0438: 1, S0440: 1, H0131: 1, S0422: 1, L0369: 1, L0520: 1, L0772: 1, L0641: 1, L0764: 1, L0803: 1, L0775: 1, L0806: 1, L0805: 1, L0384: 1, L0666: 1, S0374: 1, H0682: 1, H0658: 1, H0696: 1, S0392: 1, S3014: 1, S0027: 1, S0028: 1, L0439: 1, L0749: 1, L0750: 1, L0753: 1, L0755: 1, L0731: 1, L0757: 1, L0758: 1, S0434: 1, S0436: 1, L0592: 1, H0665: 1, H0542: 1, H0543: 1 and H0506: 1. | AR039: 34, AR104: 27, AR033: 21, AR096: 20, AR089: 15, AR053: 14, AR061: 14, AR060: 13, AR052: 13, AR055: 13 S0278: 15, S0126: 13, L0742: 13, L0758: 10, L0751: 8, L0754: 8, L0747: 8, L0748: 7, H0305: 6, S0360: 6, H0545: 6, L0776: 6, L0744: 6, H0484: 5, H0638: 5, S0007: 5, S0045: 5, H0530: 5, H0617: 5, S0144: 5, L0766: 5, L0805: 5 | | 48-80, 106-125, 37-53 |

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H0370: 4, S0051: 4, H0424:
4, H0087: 4, H0551: 4,
S0142: 4, S0344: 4, L0763:
4, L0764: 4, L0662: 4,
L0768: 4, L0803: 4, L0775:
4, H0539: 4, H0521: 4,
L0743: 4, L0752: 4, L0603:
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S0358: 3, S0408: 3, H0549:
3, H0486: 3, H0544: 3,
H0150: 3, H0023: 3, H0510:
3, H0646: 3, L0770: 3,
L0771: 3, L0773: 3, L0794:
3, L0774: 3, L0655: 3,
L0659: 3, S0404: 3, S3014:
3, S0028: 3, H0543: 3,
H0422: 3, H0556: 2, S6024:
2, H0295: 2, S0116: 2,
H0341: 2, S0282: 2, S0029:
2, H0661: 2, H0580: 2,
H0441: 2, H0069: 2, L0021:
2, H0599: 2, T0048: 2,
S0049: 2, H0050: 2, H0057:
2, H0033: 2, H0213: 2,
H0181: 2, H0606: 2, H0634:
2, S0426: 2, L0769: 2,
L0639: 2, L0761: 2, L0373:

2, L0646: 2, L0378: 2, L0806: 2, L0517: 2, S0052: 2, H0670: 2, H0710: 2, H0522: 2, H0696: 2, L0745: 2, L0756: 2, L0753: 2, L0755: 2, L0731: 2, S0434: 2, S0436: 2, L0588: 2, H0653: 2, H0667: 2, S0194: 2, S0196: 2, H0423: 2, H0352: 2, H0170: 1, H0171: 1, H0265: 1, H0685: 1, H0713: 1, H0716: 1, H0294: 1, S0114: 1, L0002: 1, H0656: 1, H0381: 1, H0483: 1, H0402: 1, H0589: 1, H0125: 1, H0675: 1, H0728: 1, S0132: 1, S6022: 1, S0222: 1, H0392: 1, H0607: 1, H0592: 1, H0586: 1, H0333: 1, H0492: 1, T0114: 1, S0280: 1, T0082: 1, H0618: 1, H0253: 1, S0010: 1, H0581: 1, H0251: 1, H0309: 1, H0234: 1, H0327: 1, H0546: 1, H0178: 1, H0567: 1, H0081: 1, H0012: 1, H0024: 1, H0083: 1, H0594: 1, H0266: 1, H0179: 1, H0416: 1, H0188: 1, H0290: 1, H0292: 1, S0003:

1281	HE8NI05	903697	1291	190 - 609	2696	Pro-17 to His-27, Pro-29 to Asn-36, Pro-42 to Cys-52,	1, H0252: 1, H0328: 1, S0368: 1, H0604: 1, H0553: 1, H0673: 1, H0708: 1, H0316: 1, H0598: 1, H0040: 1, H0063: 1, H0264: 1, H0413: 1, S0038: 1, T0041: 1, H0560: 1, H0625: 1, S0464: 1, S0438: 1, S0440: 1, H0130: 1, H0641: 1, H0529: 1, L0369: 1, L0371: 1, L0772: 1, L0800: 1, L0642: 1, L0644: 1, L0645: 1, L0521: 1, L0364: 1, L5568: 1, L0523: 1, L0653: 1, L0807: 1, L0527: 1, L0636: 1, L0782: 1, L0809: 1, L0529: 1, L0647: 1, L0664: 1, S0428: 1, S0216: 1, H0144: 1, H0520: 1, H0547: 1, H0689: 1, S0378: 1, S0152: 1, S0406: 1, H0187: 1, H0576: 1, S3012: 1, S0206: 1, L0740: 1, L0749: 1, L0779: 1, L0759: 1, L0605: 1, L0608: 1, S0106: 1, H0216: 1, S0192: 1 and S0276: 1. AR055: 3, AR060: 3, AR052: 2, AR053: 2, AR033: 2, AR089: 2,	79-109

1282	H2CBP53	903718	1292	73 - 1290	2697	Glu-3 to Arg-12, Glu-18 to Gln-42, Pro-158 to Asp-164, Asp-170 to Glu-175.	AR039: 13, AR089: 13, AR096: 13, AR033: 12, AR052: 11, AR053: 10, AR060: 9, AR055: 7, AR061: 6, AR104: 5	1q21.2-q22	104770, 107670, 110700, 145001, 146760, 146790, 159440, 159440, 159440, 186780, 191030, 191315, 600923, 601412, 601652, 601863, 602491	71-98, 363-388, 110-126, 254-270, 282-298, 48-64, 305-321, 132-148
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1283	HDPPP18	903850	1293	707 - 1249	2698	Glu-52 to Thr-57, Lys-112 to Lys-117.	AR039: 38, AR089: 19, AR096: 19, AR053: 19,			22-40, 139-162,

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2, L0596: 2, H0423: 2,
H0556: 1, H0713: 1, H0583:
1, H0650: 1, S0354: 1,
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